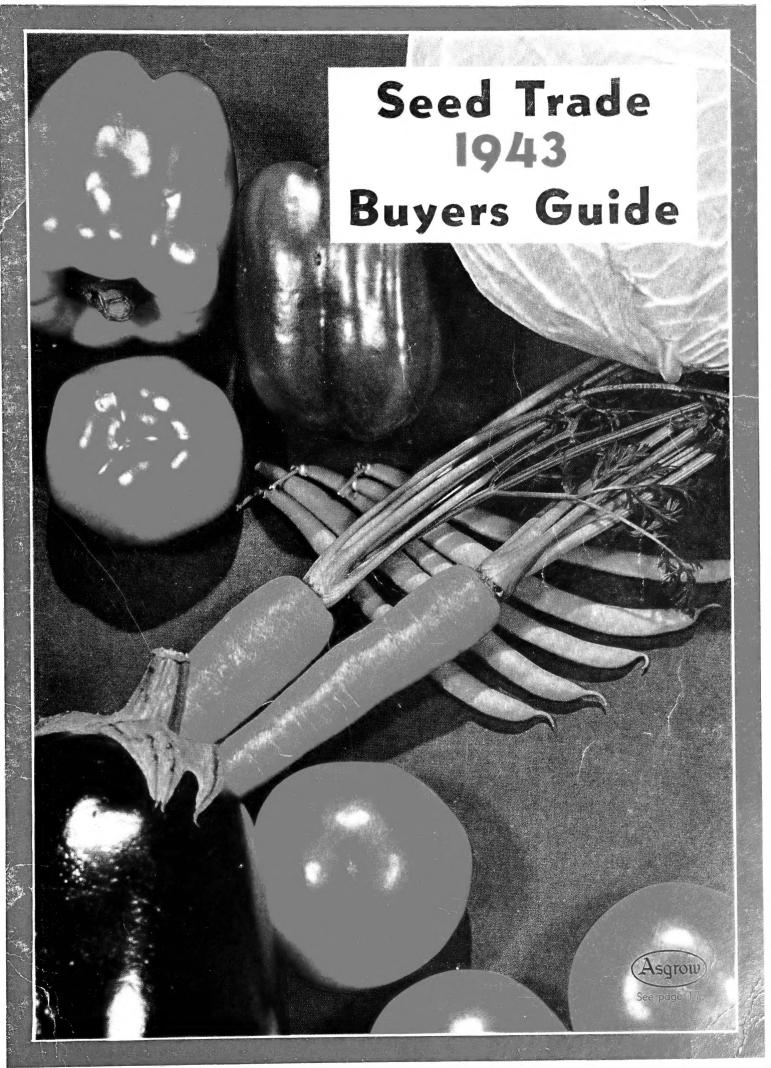
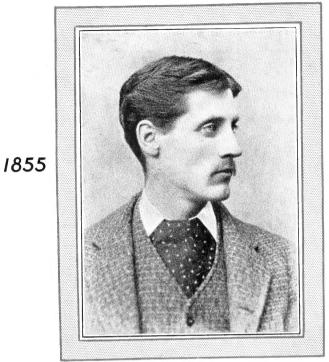
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- Tough Galvanized ¼ Inch mesh Wire Base, drawn Tough and Thin to admit more light.
- Every Joint and Wire imbedded in a cushion plastic, before final Transparent coating is applied, for double reinforcing and to eliminate air pockets.
- Plastic Glass applied to both sides, sealing wires inside. Everything fused into one Solid Weatherproof Sheet. No cheap rosin or glue to discolor or decompose, and—no air pockets to trap moisture in Warp's Wyr-O-Glass.
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- Double Thickness Coating along both edges. Feet and Inches plainly marked along Selvage.

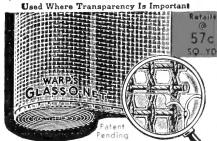
Cat. #	Yds. W	/idth	Sq. Ft.		Cost
WOG-5 WOG-2 WOG-1	5 25 yds	. 36"	225	28 14 7	\$27.0 13.5 5.4

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GON-25	25 yds.	36"	225	10	9.50
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TRIPLE LAMINATED SCREEN BASE

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Roll
34.0 77.00

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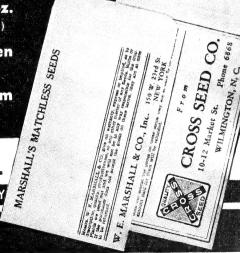
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SEEd Trade Buyers Guide

₩ TWENTY-SIXTH EDITION

VOLUME XXVI

FOR THE YEAR OF 1943



ITH most of the world still at war, and the consequent demand for food and food crop seeds heavier than ever before, seedsmen this year occupy an extremely important position. A large percentage of the seed we produce is being sent, through Government Lend-

Lease channels, to our Allied Nations. Every available pound, other than that exported, is expected to be spoken for by our own millions of Farmers, Home and War Gardeners, Truck Growers and Food Processors.

It is confidently expected that when peace returns seedsmen will be confronted with still greater demands if the hungry populations of former enemy and invaded countries are to be nourished. United States producers and wholesalers of vegetable, field and flower seeds, the grasses, bulbs and roots are approaching, therefore, the busiest and most difficult years in seed trade history.

The retail, mail-order and packet seed groups are today functioning smoothly under the severe handicaps of labor shortage, necessary rationing of many equipment items, and the complete discontinuance of certain allied lines, formerly very profitable.

All of these individual groups of seedsmen are today ably carrying on under war conditions, and in addition are charting their courses for the post-war period, a time which all hope is not far distant. To these competent and patriotic horticultural leaders we dedicate the 1943 SEED TRADE BUYERS GUIDE, doing so in the hope that its contents will prove of value during these trying times.

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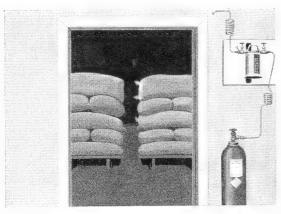
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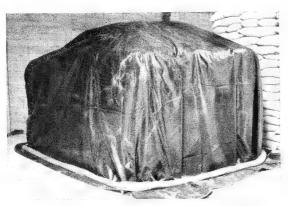
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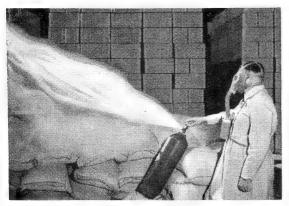
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See'y, Mrs. W. F. Kleinjohn
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See'y, Mrs. James Chandler
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Association Maryland Vegetable Growers
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MINNESOTA

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1039 No. 30th, Billings, M
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Association 194 East McMillan St.,
Cincinnati, Ohio
Ohio Small Fruit Improvement
Association
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Dept. of Horticulture,
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862 Mirror St., Pittsburgh, Pa.
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6906 Thomas Blvd.,
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1322 Schlager St.,
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Sec'y, V. A. Hill
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Providence, R. I.
Cor. Sec'y,
Mrs. John B. Carpenter
274 Brow St.,
East Providence, R. I.
Rhode Island Fruit Growers

214 Brow St.;
East Providence, R. I.
Rhode Island Fruit Growers
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South Dakota Potato Growers Association
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Sec'y, John Noonan
Box 55, Watertown, S. Dak.
South Dakota State Horticultural Society
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Yankton, S. Dak.
Sec'y, W. A. Simmons
Court House,
Sioux Falls, S. Dak.

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TEXAS

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Sec'y. Mrs. M. R. Garrison
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Wichita Falls, Tex.
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Sec'y, Andrew Winkler
Box 33, The Grove, Tex.
Central Texas Pecan Growers
Association
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Waco, Tex.
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Sec'y, Prof. M. B. Lebo
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Utah Gladiolus Society
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East Salt Lake City, Utah
Sec'y, F. E. Draper
1150 West 7th,
South Salt Lake City, Utah Utah State Horticultural Society Pres., Judge J. A. Howell 625 Esch Bldg., Ogden, Utah

Sec'y, A. Stark Utah State Agr. College, Logan, Utah

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Vermont Certified Seed Potato
Growers Association
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Dept. of Agriculture,
Montpelier, Vt.
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Vermont Horticultural Society Vermont Horticultural Society
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Sec'y, Charles H. Blasberg
481 Main St., Burlington, Vt

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Supt. of Parks
City Hall, Norfolk, Pa.
Sec'y, L. K. Payne
405 Duke St., Norfolk, Pa.
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Richmond, Va.
Sec'y, C. P. Miller
Registry Division, U. S. P. O.,
Richmond, Va.
Virginia Federation of Garden Clubs Sec y, C. P. Miller
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Richmond, Va.
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Southwest Virginia Gladiolus
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P. O. Box 1560, Roanoke, Va.
Sec'y, C. P. Beard
Room 404, Gen. Office Bldg.,
N. & W. Railway,
Roanoke, Va.

WASHINGTON

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Society
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Seattle, Wash.
Sec'y, Mrs. Charles T. Lill
15 W. Crockett St.,
Seattle, Wash.
Washington Gladiolus Society
Pres., Stewart E. Perry
812—11th St., N. W.,
Puyallup, Wash.
Sec'y, John W. Huff
P. O. Box 11, Orting, Wash.
Washington State Federation of
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1906—35th W., Seattle, Wash.
Washington State Horticultural
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Sec'y, Oliver Shurtleff
Fairmont, W. Va.
West Virginia Garden Club
Pres., Mrs. Brooks Fleming, Jr.
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Fairmont, W. Va.
Sec'y, Mrs. Philip Johnson
Homeacre, West End,
Fairmont, W. Va.
West Virginia Gladiolus Society
Pres., R. B. Apperson
13 Lenox Ave., Wheeling, W. Va.
Sec'y, Thomas Manley
525 Coleman Ave.,
Fairmont, W. Va.
West Virginia Horticultural Society
Pres., E. Lee Goldsborough
Shepherdstown, W. Va.
Sec'y, Carroll R. Miller
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WISCONSIN

WISCONSIN

Dahlia Society of Wisconsin
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Sec'y, E. J. Heggestad
4829 N. Larkin St.,
Whitefish Bay, Wis.
Wisconsin Garden Club Federation
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1422 Blaine Bldg., Racine, Wis.
Sec'y, H. J. Rahmlow
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Madison, Wis.
Wisconsin Gladiolus Society
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Sec'y, H. J. Rahmlow
424 University Farm Pl.,
Madison, Wis.
Wisconsin Iris Society
Pres., Joseph Unrath
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Milwaukee, Wis.
Sec'y, Milo Snyder
79 Rogers Ave.,
Wauwatosa, Wis.
Wisconsin State Horticultural
Society
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Sec'y, H. J. Rahmlow
424 University Farm Pl.,
Madison, Wis.

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See'y, Mrs. B. W. Skinner
54 Essex St.,
Lynnfield Centre, Mass.
Central States Dahlia Society
Pres., Harry L. Franzen
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See'y, David W. Radke
6755 S. Bishop St.,
Chicago, Ill.
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Senator,
Winchester, Va., and
Senate Office Bildg.,
Washington, D. C.
See'y, W. S. Campfield
Box 718, Staunton, Va.
Georgia-Florida Pecan Growers
Association
See
Southeastern Pecan Growers See
Southeastern Pecan Growers
Association
Middle Atlantic Carnation Growers
Association
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Bird-in-Hand, Pa.
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Sec'y, Mrs. Walter J. Scott
4921 W. Huron St.,
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Inc. New England Gladiolus Society, Inc.
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New England Gourd Society
Pres., Sterling H. Pool
Horticultural Hall,
Boston, Mass.
Sec'y, Mrs. Edward M. Stuart
Horticultural Hall,
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New England Rose Society
Pres., George A. Sweetser
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Sec'y, Everett A. Piester
Municipal Bldg.,
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New England Wild Flower
Presequation Society. Inc. Hartford, Conn.

New England Wild Flower
Preservation Society, Inc.

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Boston, Mass.
Sec'y, Miss Lilly S. Tobey
Horticultural Hall, 300 Mass.
Ave., Boston, Mass.

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Hempstead, L. I., N. Y.
Sec'y, Jacob Gunther
North Bellmore, L. I., N. Y. North Bellmore, L. I., N. Y.

Northern Nut Growers Association,
Inc.

Pres., Carl Weschke
St. Paul, Minn.
Sec'y, George L. Slate
N. Y. Expt. Sta., Geneva, N. Y.

N. W. Gladiolus Growers

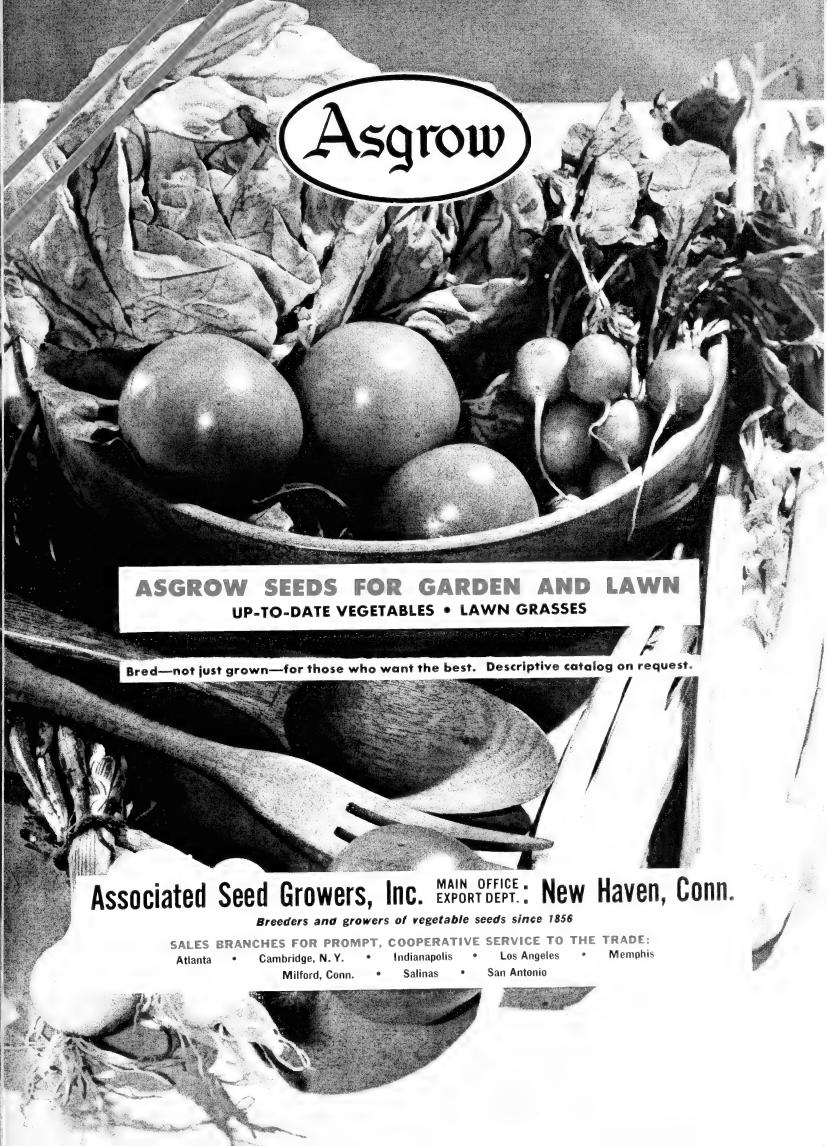
Association Association
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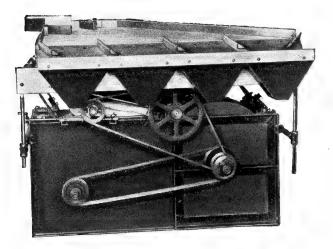
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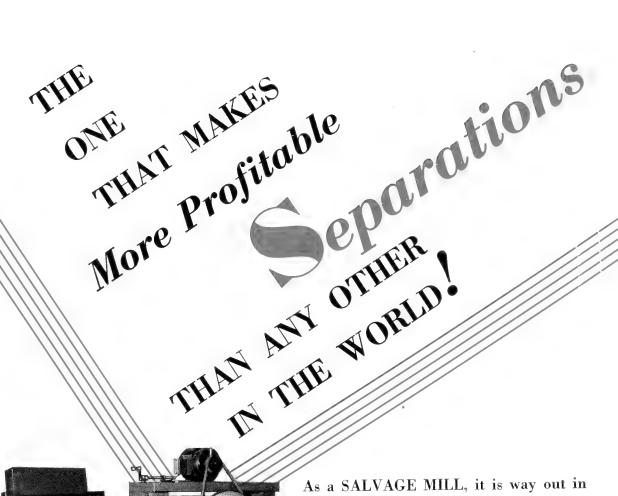
Figures below represent contracts only. Deliveries will probably be somewhat smaller.

GROWING AND	Spot	Purchases
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	SPO	ΤC	GROWING		
Kind	Pounds	Dollars	Pounds	Dollars	
Asparagus	200	60	2,000	470	
Beans	489,580	64,441	887,500	131,271	
Beets	205,716	197,337	330,900	193,006	
Broccoli.	1,160	2,400			
Cabbage	85,315	120,980	36,200	48,405	
Carrots	196,664	620,079	163,500	197,973	
Cauliflower	3,291	45,046	3,500	43,000	
Celery	742	1,435	1,200	2,468	
Chard, Swiss	13,460	11,285	1,000	400	
Corn, Sweet	21,280	3,426			
Cucumber	12,758	7,542	11,000	5,879	
Eggplant	50	113			
Endive	386	192	1,500	648	
Herbs			10	23	
Kohlrabi			400	490	
Leek	580	4,480	5,650	14,050	
Lettuce, Heading	49,738	30,770	225,600	161,074	
Lettuce, Leaf	100	45			
Lettuce, Romaine Cox	3,300	1.389	38,700	23,655	
Muskmelon			500	275	
Onion	96,610	365,932	88,350	186,298	
Parsley	5,600	2,420	4,000	1,300	
Parsnip	13,150	9,900	35,000	13,830	
Peas, Smooth	65,000	6,077	277,000	31,120	
Peas, Wrinkled	660,584	121,646	4,328,000	494,989	
Pumpkin	250	106	300	135	
Radish	54,518	19,298	629,860	195,012	
Rutabaga	22,294	26,618	38,000	8,350	
Salsify			500	260	
Spinach	24,870	15,085	265,000	73,350	
Squash	13,339	7,666	46,200	18,557	
Tomato	4,643	7,586	7,600	17,240	
Turnip	51,738	12,623	45,300	9,754	
	2,096,916	1,704,977	7,489,270	1,874,359	

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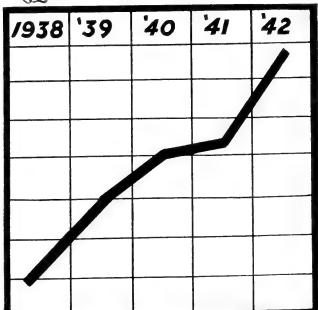
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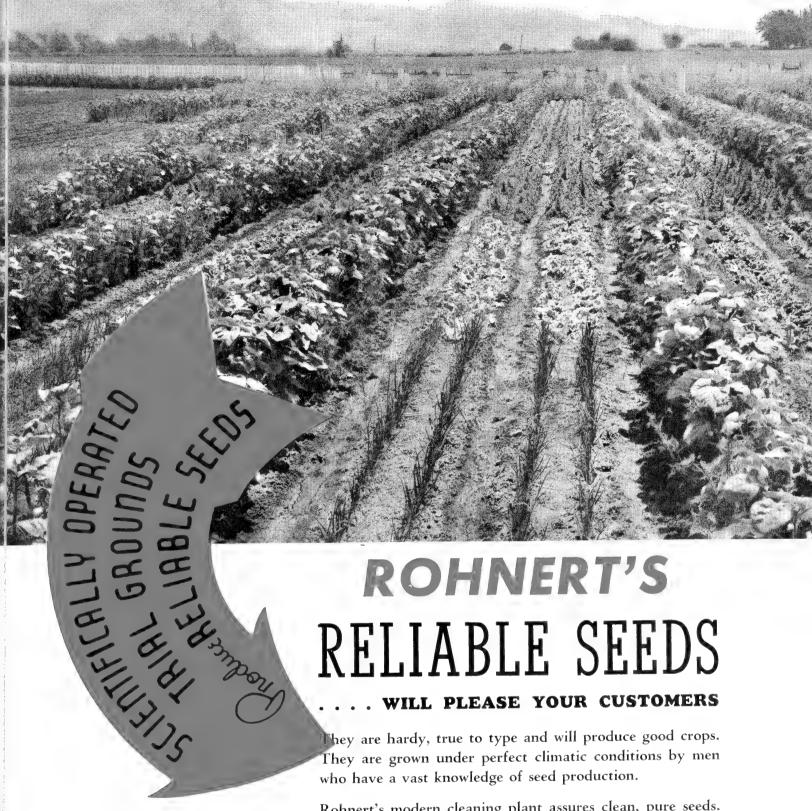
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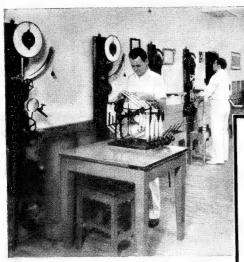
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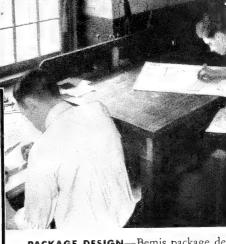
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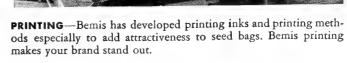
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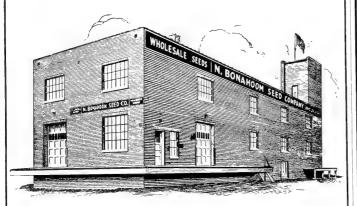


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Fargo, N. Dak.
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Valker-Christensen Co. Minot, N. Dak. Farmers Union Grain & Supply Co. Williston, N. Dak.

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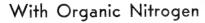
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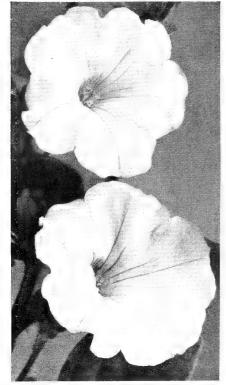
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PETUNIA IGLOO - Bronze Medal - Grown by Joseph Harris Co., Rochester, N. Y.

Ageratum

Name		Award	Year	Introducer	
Midget	Blue	S	1940	Waller-Franklin Seed	Co

Anchusa

Blue	Bird	B	1935	Watkins	&	Simpson	

Antirrhinum

	2 1 1 1	CIL L ALL.	II LA III L	
Celestial	Б	1938	Sluis en Groot	
Guinea Gold	13	1939	Hurst & Son	
Psyche	M	1938	L. Daehnfeldt, Ltd,	
Rosalie	В	1940	Waller-Franklin Seed	Co.
Royal Rose	В	1936	Hurst & Son	
Rustproof	Special Award	1935	Univ. of California	
St. George	В	1936	Hurst & Son	
White Spire	В	1937	Sluis en Groot	



POLE SNAP BEAN POTOMAC - Bronze Medal-Grown by Associated Seed Growers, Inc., New Haven, Conn.

1933

Golden Crown

Flame of Fire

Royal Velvet

Eldorado

Pink Oneen

Firmament

Sunlite

All-America

G-Gold Medal, S-Silver Medal

		Aste	r
Early Giant	8	1939	Bødger Seeds, Ltd
El Monte	18	1936	Bodger Seeds, Ltd.
Enchantress	M	1938	Bodger Seeds, Ltd.
Extra Early Gia	nt		
Crego, Navy	Blue M	1943	W. Atlee Burpee Co.
Illusion	M	1938	Bodger Seeds, Ltd.
Los Angeles	S	1934	Bodger Seeds, Ltd.
Rose Marie	M	1940	Bodger Seeds, Ltd.
Silvery Rose	R	1934	Bodger Seeds, Ltd.
Victory Giants M	lixed M	1943	Sluis en Groot of Amer- ica, Inc.
Wilt-Resistant	Special Award	1933	Bodger Seeds, Ltd.

	Ca	alend	ula
Orange Fantasy	S	1938	W. Atlee Burpee Co.
Orange Shaggy	G	1935	Waller-Franklin Seed Co. Vaughan's Seed Store
Sunshine	G	1934	Waller-Franklin Seed Co. Vaughan's Seed Store Bodger Seeds, Ltd. W. Atlee Burpee Co.
	~	224	

Calliopsis

S 1938 Hurst & Son

Canterbury Bell

Angelus Bell	В	1934	Waller-Franklin Seed	Co.
Annual Mixed	G	1933	Waller-Franklin Seed	Co.
Liberty Bell	S	1934	Waller-Franklin Seed	Co.

Celosia

В	1935	T. Sakata & Co.
M	1939	Livingston Seed Co.

Chrysanthemum

B 1934 Bodger Seeds, Ltd.

Cleome

1942 Ferry-Morse Seed Co.

Cornflower

Jubilee Gem S 1937 Hurst & Son

Cosmos

Giant Sensation, Dazzler Orange Flare Sensation Yellow Flare	M G S	1943 1935 1936 1942	Bodger Seeds, Ltd. Bodger Seeds, Ltd. J. V. Edlund W. Atlee Burpee C
Yellow Flare	5	1942	W. Attee Burpee C

Cynoglossum

E 1939 Ernst Benary

Delphinium

8 1933 Waller-Franklin Seed Co. Cambridge Blue

Dianthus

Lacimiatus Splendens B 1935 Bodger Seeds, Ltd.

Hollyhock

■ 1939 Sluis en Groot Indian Spring

Hunnemania

S	1934	Bodger	Seeds,	Ltd

Larkspur

ie Bell	В	1934	Bodger	Seeds.	Ltd
samund	G	1934	Bodger		
ite King	В	1937	Bodger	Seeds,	Ltd

Linaria

Fairy Bouquet 1934 Watkins & Simpson

Lupine

Giant King 1933 Waller-Franklin Seed Co.

1934 }

	N	Iarigo	old
Butterball	В	1942	Bodger Seeds, Ltd.
Chrys'm Flowered	M	1938	Waller-Franklin Seed Co.
Crown of Gold	G	1937	W. Atlee Burpee Co.
Dixie Sunshine	S	1936	H. G. Hastings Co.
Dwarf Boyel Cook	D	1007	W. Atlee Burpee Co.
Dwarf Royal Scot	В	1937	Waller-Franklin Seed Co.
Early Sunshine	В	1939	W. Atlee Burpee Co.
Golden Beauty	В	1935	Hurst & Son
Golden Bedder	В	1942	W. Atlee Burpee Co.
Golden Glow	M	1939	W. Atlee Burpee Co.
Golden West	M	1938	W. Atlee Burpee Co.
Goldsmith	13	1941	Waller-Franklin Seed Co.
Guinea Gold	G	1933	Hurst & Son
Limelight	В	1940	W. Atlee Burpee Co.
Melody	В	1942	
Monarch Mixed	S	1934	Hurst & Son

Bodger Seeds, Ltd.



MARIGOLD SUNKIST—Silver Medal—Grown by Bodger Seeds, Ltd., El Monte, Calif.

Primrose Queen	В	1935	Hurst & Son	
Scarlet Glow	M	1941	W. Atlee Burpee Co.	
Spry	S	1941	W. Atlee Burpee Co.	
Sunkist	S	1943	Bodger Seeds, Ltd.	
Yellow Beauty	В	1935	Hurst & Son	
Yellow Pygmy	M	1940	W. Atlee Burpee Co.	
Yellow Supreme	G	1935	Livingston Seed Co.	
Yellowstone	M	1942	Waller-Franklin Seed	Co.

Morning Glory

	TITOLY	ming divis	
Lavender Rosette	M	1940 Sluis en Groot	
Pearly Gates	S	1942 Ferry-Morse Seed Co	
Scarlett O'Hara	G	1939 { Waller-Franklin Seed Co. Dallas Seed Producing Co),

	Му	ositi	S			
1	M 1	1938	L.	Daehnfeldt,	Ltd.	

Nasturtium

Glorius Gleam Hybrids	S	1935	Bodger Seeds, Ltd.
Golden Gleam	G	1933	Bodger Seeds, Ltd.
Golden Globe	8	1936 {	Vis Brothers, Ltd. Bodger Seeds, Ltd.
Scarlet Gleam	\mathbf{G}	1935	Bodger Seeds, Ltd.

Scarlet Gleam	u	1935	Bouger	Seeas,	Lta.
	Nie	eremb	ergia		
Purple Robe	В	1942	Bodger	Seeds,	Ltd.

Pansy

Coronation Gold	8	1938	Sluis en Groot
warf Swiss Giants	S	1933	Vaughan's Seed Store



GIANT SENSATION COSMOS DAZZLER-Honorable Mention—Grown by Bodger Seeds, Ltd., El Monte, Calit.

Selections

1943

B-Bronze Medal, M-Honorable Mention



 ${\it PETUNIA} \quad {\it ALLDOUBLE} \quad {\it AMERICA} -- {\it Silver}$ Medal—Grown by W. Atlee Burpee Co., Philadelphia.

Petunia						
Alldouble America	S	1943	W. Atlee Burpee Co.			
Blue Brocade	S	1941	T. Sakata & Co.			
Blue Gem	M	1938	T. Sakata & Co.			
Burgundy	В	1937	W. Atlee Burpee Co.			
Cream Star	8	1940	W. Atlee Burpee Co.			
Dainty Lady	8	1936	Bodger Seeds, Ltd.			
English Violet	M	1943	Joseph Harris Co.			
First Lady	S	1941	T. Sakata & Co.			
Flaming Velvet	G	1936	Sluis en Groot			
Glamour	\mathbf{M}	1942	Bodger Seeds, Ltd.			
Glow	S	1940	T. Sakata & Co.			
Hollywood Star	8	1939	Waller-Franklin Seed	Co.		
Igloo	В	1943	Joseph Harris Co.			
Imp'd. Rose King	В	1936	Ferry-Morse Seed Co.			
Ladybird	В	1939	Ernst Benary	Co.		
Martha Washington	S	1935		Co.		
Pink Gem	G	1934	Waller-Franklin Seed	Co.		
Radiance	S	1941	Waller-Franklin Seed	Co.		
Rose Gem	8	1936		00.		
Salmon Supreme	S	1938		Co.		
Topaz Rose	В	1938		Co.		
Velvet Ball	В	1939	Vis Brothers, Ltd. Bodger Seeds, Ltd.			
Victorious Apple						
Blossom	M	1939	T.Sakata & Co.			
Victorious Gaiety	В	1938	T. Sakata & Co.			
Victorious, Mixed	S	1934	T. Sakata & Co. Ferry-Morse Seed Co.			
Victorious Orchid		·				
Beauty	8	1938	T. Sakata & Co.			
Violet Gem	M	1941	Waller-Franklin Seed	Co.		
Violet Gem	M	1941	Waller-Franklin Seed	Co.		



TOMATO JUBILEE—Bronze Medal—Grown by W. Atlee Burpee Co., Philadelphia, Pennsylvania.

Phlox

		A BULOZ		
Gigantea Art Shades Red Glory Rosy Morn Salmon Glory	M B B	1935 1942 1941 1939	Waller-Franklin Seed Waller-Franklin Seed Waller-Franklin Seed Waller-Franklin Seed	d Co. Co.

Poppy, Iceland

GHOM Monace	10.0	1001			
	F	Rudbe	ckia		
Starlight	M	1942	Buckman, Holden	Denholm Seed Co.	and

Salvia 1940 Hurst & Son

	S	cabio	sa
lue Moon iant Hybrids eavenly Blue	M B B	1939 1934 1940	Bodger Seeds, Ltd. W. Atlee Burpee Co W. Atlee Burpee Co
eavenly Dide	3.5	1041	W. Atlan Purpon Co

Royal Blue

Fastuosum

		Stock		
Rose Pink	В	1937	Waller-Franklin Seed	Co.

		D.M.	eet .	rea		
ring.	Blue	В	1940	Ferry-Morse	Seed	\mathbb{C}_0
	Lavender	M	1940	Ferry-Morse	Seed	Co
	Dogo Dink	2	1940	Ferry-Morse	Seed	Co

Venidium

1933 Bodger Seeds, Ltd.

Verbena

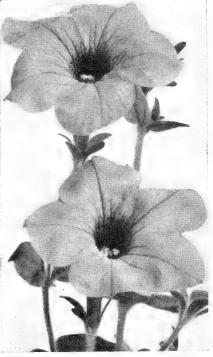
	¥	erner	la	
Beauty of Oxford	S	1933	Waller-Franklin Seed	€ 0.
Blue Sentinel	В	1939	W. Atlee Burpee Co.	
Cerise Queen	В	1934	Waller-Franklin Seed	Co.
Dannebrog	S	1934	L. Daehnfeldt, Ltd. Theodore Jensen	
Floradale Beauty	8	1937	W. Atlee Burpee Co.	
Lavender Glory	8	1933	Waller-Franklin Seed	C ₀
Spectrum Red	В	1934	Waller-Franklin Seed	Co
Violet Bouquet	18	1935	Waller-Franklin Seed	Co
		Zinni	a	
Rlack Ruhy	R	1941	W. Atlee Burnee Co.	

		Zinnia	l.
lack Ruby	В	1941	W. Atlee Burpee Co.
antasy, Mixture	S	1935	Bodger Seeds, Ltd.
antasy, Star Dust	8	1937	Bodger Seeds, Ltd.
antasy, White Light	M	1939	Bodger Seeds, Ltd.
avajo, Mixed	M	1938	W. Atlee Burpee Co.
oyal Purple	Μ	1942	Ferry-Morse Seed Co

VEGETABLES

Bean

		Dear	4
Name	Award	Year	Introducer
Asgrow Stringless			
Green Pod	G	1933	Associated Seed Growers, Inc.
Bush Snap, Long	3.5	40.10	William Kroemer
Island Longpod	M	1942	William Kroemer
Bush Snap, Medal Refugee	R	1942	Associated Seed Growers,
Menal Reingee	ь	1012	Inc.
Bush Snap,			
Tender Pod	13	1941	W. Atlee Burpee Co.
Granda	S	1939	Rudolph Schreiber &
		1000	Sohne Ferry-Morse Seed Co.
Plentiful	В	1939 1933	Associated Seed Growers,
(Asgrow) Stringless Black Valentine	S	1999	Inc.
Pole Snap, Decatur	ŝ	1942	Associated Seed Growers,
I bie bilap, Decatai		201=	Inc.
Pole Snap, Potomac	B	1943	Associated Seed Growers,
			Inc.
The Commodore	8	1938	Zwaan & Van der Molen
	Bea	an, I	ima
Baby Potato	S	1940	Associated Seed Growers
Daby Lovaro			Inc.
Cangreen Bush	M	1943	F. H. Woodruff & Sons,
		D	Inc.
		Bee	-
Asgrow Canner	S	1936	Associated Seed Growers
			Inc.
Asgrow Wonder	G	1934	Associated Seed Growers
C . 1 4 411	R	1934	Inc. Ferry-Morse Seed Co.
Good for All Little Marvel	В	1934	Zwaan & Van der Molet
	-		(Ohio Eunosimont Station
Ohio Canner	8	1933	J. M. Lupton & Son
Perfected Detroit	В	1934	J. M. Lupton & Son
Perfect Model	В	1938	Abraham Sluis, Ltd.
	C	abba	ge
Chieftan	8	1938	Ferry-Morse Seed Co.
Earliest of All (Red		1937	
Just Right	В	1935	
Moskow Market Prid	e M	1937	Abraham Sluis, Ltd.
Penn State Ballhead	S	1934	Penn State College
Sauerkraut King	М	1938	J. M. Lupton & Son Abraham Sluis, Ltd.
Sauerkraut King	AT.	1938	ADIAHAM STUIS, LIVE.



ENGLISH VIOLET Honorable PETUNIA Mention — Grown by Joseph Harris Co., Rochester, N. Y.

Cantaloupe

Honey Gold	M	1941	Edward Lowden
Honey Rock	G	1933	J. C. Robinson Seed Co.
Imperial	S	1935	J. C. Robinson Seed Co.
Improved Perfecto	S	1933	Garwood & Woodside
Queen of Colorado	M	1939	J. C. Robinson Seea to.
Wayside Market	M	1939	D. V. Burrell Co.

Carrot

Claudia Imperator	B	1937 1933	***************************************	Growers
Morse's Bunching Supreme Half-Long	G B	1934 1937	Inc. Ferry-Morse Seed Ferry-Morse Seed	



ASTER VICTORY GIANTS MIXED-Honorable Mention—Grown by Sluis en Groot of America, Inc., Washington, N. C.



Rootone Counter Display

Now of all Times YOU CAN MAKE MORE PROFITS

To pay your taxes and buy your bonds from



Here is a product used and demanded in increasing volume by farmers, market growers, nurserymen, specialists, horticulturists, home gardeners, and home owners.

men. specialists, norticulturists, home gardeners, and home owners. There are no priority restrictions on it. It is an important factor in producing the increased crops that we must have.

ROOTONE is now an accepted part of cultural technique for many plants by countless professional growers. It is a hormone powder which, when dusted on seeds, hastens germination and tends to produce more and stronger seedlings. When cuttings are dipped in ROOTONE powder before setting they are stimulated to quicker root formation. The experience of growers during the past four years has shown amazing increases on a wide range of crops from the use of ROOTONE. It is one item in a fast growing line. You will find equally active sales with



This powder when dissolved in water makes a solution that stimulates plants after they have been transplanted and, thus, reduces loss from shock and wilt. It is used and endorsed by plant growers in all sections of the country.

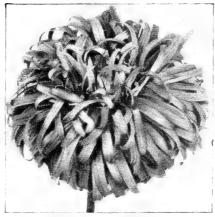


Is the product that you have heard so much about for its wide use on holding fruit on the trees until it attains full size and color. Also, the solution sprayed on ornamental shrubs such as holly, snow-berry, etc., induces a heavier and showier crop of berries.

Eight out of every ten people who come into your store are prospects for one or all of these items... and most of them have been previously convinced of their value through national advertising.

through nation	ai advertising.	
ROOTONE	1/4 oz. pkt. 25 2 oz. jar\$1.0 1 oz. can\$5.0	Ó
TRANSPLANTONE	1/2 oz. pkt. 25 3 oz. can \$1.0 1 lb. can \$4.0	Õ
	2% oz. pkt. 25 2 oz. can \$1.0 12 oz. can \$5.0	ÒÓ
Horticu	ltural Div. Yal	

AMERICAN CHEMICAL PAINT COMPANY Ambier, Penna.



ASTER EXTRA EARLY GIANT CREGO NAVY BLUE—Honorable Mention—Grown by W. Atlee Burpee Co., Philadelphia.

Corn, Sweet

Allegheny, Hybrid	В	1941	Associated Seed Grower Inc.
Aristogold Bantam			
No. 1	M	1939	Michael-Leonard Seed C
Ear Pack Bantam			
12-Row	M	1939	Northrup, King & Co.
Golden Colonel	S	1936	Associated Seed Grower Inc.
Hybrid Bantam	S	1935	Sioux City Seed Co.
Hybrid Sweet,			·
Lincoln	В	1942 (Conn. Experiment Static Sleeping Giant Seed Farn
		ì	Sleeping Giant Seed Farn
Hybrid Sweet, Top-		-	
flight Bantam	M	1942	Michael-Leonard Seed Co
Ioana	В	1940 {	Iowa State College Associated Seed Growers, Inc.
Kingscrost Bantam	R	1934	
Spancross, Hybrid		1941	
Stowell's Evg.		1011	
Hybrid	В	1934	Associated Seed Grower

			AIIC.
	C	ucuml	ber
Barteldes	8	1934	Barteldes Seed Co.
Clark's Special	8	1933	Associated Seed Growers Inc.
Colorado	S	1935	J. C. Robinson Seed Co.
Marketer	В	1943	Associated Seed Growers
(Blue R	libbon)		Inc.
Straight-8	G	1935	Ferry-Morse Seed Co.



BUSH LIMA BEAN, GREEN SEEDED HEN-TYPE, CANGREEN — Honorable DERSON Mention-Grown by F. H. Woodruff & Sons, Inc., Milford, Conn.

	E	ggpla	nt		
New Hamps, Hybrid	8	1939	N.	Η.	Experiment Station
	_	Endiv	e		

		Endiv	e
atavian Full Heart	S	1934	Vilmorin-Andrieux & Co
os-type Batavian	M	1941	Ferry-Morse Seed Co.
eep Heart Fringed	S	1940	Ferry-Morse Seed Co.
rizewinner	В	1937	Sluis Brothers, Ltd.
	T.	7 - 1-1	1. 4

Kohlrabi 1937 Sluis Brothers, Ltd. Triumph of Prague

		L	∡ettu	ce
Atlantic	В		1937	Sluis en Groot
Cosberg 600	M		1942	U.S. Dept. of Agriculture Northrup, King & Co.
Giant So. Curled, L.S.	G	ř	1935	
L. S. White Boston	S		1935	Francis C. Stokes & Co.
New York PW55	M		1942	Pieters-Wheeler Seed Co.
Spearhead	M		193 8	W. Atlee Burpee Co.
			Okra	ı
Clemson Spineless	S		1939	S. C. Experiment Station
La, Green Velvet	M		1941	Fruit & Truck Exp. Sta.
White Lightning	В		1939	H. G. Hastings Co.

Photographs by J. Horace McFarland Co., Harrisburg, Pa., and growers.

Onion

Yellow Valencia

Asgrow King Early Pimiento Fordhook Rocky Ford Sweet Banana

Windsor A

Billiard Ball

Glowing Ball

Jewel White Pearl

Comet

1937 D. V. Burrell Co.

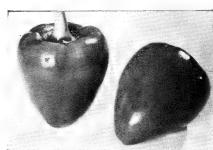
Parsley

			· J
Evergreen	M	1940	Ferry-Morse Seed Co.
Paramount	S	1936	Ferry-Morse Seed Co.
Peerless	В	1934	Zwaan & Van der Molen
		Pea	
Canner King	B	1937	Associated Seed Growers Inc.
Confidence	S	1936	Zwaan & de Wiljes, Inc.
Teton	S	1937	Associated Seed Growers Inc.
Top Notch	M	1939	W. Atlee Burpee Co.

Pepper

	I- I	_
В	1935	Associated Seed Grower
		Inc.
M	1943	W. Atlee Burpee Co.
В	1940	W. Atlee Burpee Co.
В	1938	D. V. Burrell Co.
В	1941	Corneli Seed Co.
8	1937	Conn. Experiment Station

	Radis	h
M	1938	Sluis en Groot
8	1936	Zwaan & Van der Molen
G	1934	Zwaan & Van der Molen
В	1936	Zwaan & de Wiljes, Inc.
B	1935	Sluis Brothers, Ltd.



PEPPER EARLY PIMIENTO-Honorable Mention-Grown by W. Atlee Burpee Co., Philadelphia.

Contract

		Spina	cn
Bloomsdale No. 5	В	1937	Sluis Brothers, Ltd.
Darkie	В	1937	Zwaan & Van der Molen
Del Monte	M	1938	Zwaan & Van der Molen
Giant Nobel	В	1933	Zwaan & Van der Molen
Resisto	M	1937	Zwaan & de Wiljes, Inc.
Summer Savoy	В	1937	Zwaan & Van der Molen
Viking	s	1935	Sluis en Groot
Winter King	\mathbf{B}	1937	Zwaan & Van der Molen
		\sim	

Squash									
Conn. Straightneck	M	1939	Conn. Experiment Station						
Ey. Prolific St'neck	S	1938	Ferry-Morse Seed Co.						
Fordhook Zucchini	M	1942	W. Atlee Burpee Co.						
Golden Table Queen	В	1939	J. C. Robinson Seed Co.						
Yankee Hybrid	В	1941	Lawrence C. Curtis						

I will co II J Di I G		1011	Dawrence C. Curvis
	,	Foma i	to
Burpee Globe	S	1936	W. Atlee Burpee Co.
Cardinal	M	1938	Associated Seed Growers,
			Inc.
Harkness	M	1938	McFayden Seed Co.
Jubilee	\mathbf{B}	1943	W. Atlee Burpee Co.
Mingold	S	1940	Minn. Experiment Station
Penn State	В	1936	Walter S. Schell, Inc.
Pritchard	(2)	1933	U. S. Dept. of Agriculture
Scarlet Dawn	G	1935	Associated Seed Growers.
			Inc.
Victor	В	1941	Keith Barrons
	337.	. 4	-1

Watermelon

Graystone 1933 H. G. Hastings Co.



CUCUMBER MARKETER, the Blue Ribbon vegetable winner-Bronze Medal-Grown by Associated Seed Growers, Inc., New Haven, Conn.

"Until the Lights Go On Again"

Our COUNTRY is in a desperate struggle to preserve the American way of life and our Government has asked that more and more land and manpower be devoted to the production of essential food crops and the growing of vegetable seed to produce these crops. Our business is the production of flower seeds, but in support of the all-out war effort, we shall, for the coming season, allocate a large percentage of our land and devote much of our effort to the production of vegetable seed and essential food crops.

Sufficient land will be devoted to the production of flower seeds to provide our regular customers with some seed on all of the important items that they normally buy from us and to maintain our present stocks at the usual high state of perfection.

For the duration it may be necessary for us to delete from our commercial production some of the less important items of flower seeds. On these we shall, of course, make plantings of sufficient size to insure ample planting stock of high vitality and high quality to again produce the usual quantities after the war.



Merit Flower Seed and Food Crops

WALLER-FRANKLIN SEED COMPANY wholesale growers

GUADALUPE, CALIFORNIA

SALES OF 17 SEEDS ARE SMALLER BUT 6 ARE LARGER THAN IN 1941

Washington, D.C., August 1.—Retail sales of 17 field seeds during the past spring and early this summer were smaller than last year, while sales of 6 were larger. The total quantity of the 23 kinds sold by the 1,459 dealers reporting was 62,900,000 pounds, which is 3 percent more than was sold in 1941. If, however, sales of the larger seeds—corn, cowpeas, and soybeans—are excluded from the total, the sales of the remaining (smaller) seeds are 7 percent less than in 1941. Declines in sales ranged from 5 to 15 percent, with the sales this year compared with last year given in paren-

theses as follows: white (Dutch) clover (85), alfalfa (87), cowpeas (87), timothy (87), millet (88), sweetclover (89), crested wheatgrass (90), meadow fescue (90), orchard grass (90), Kentucky bluegrass (92), redtop (92), alsike clover (94), Korean lespedeza (94), ryegrass (94), sorgo (94), bromegrass (95), and Kobe lespedeza (95). On the other hand, sales of the following 6 seeds were 1 to 35 percent larger than in 1941: Ladino clover (135), soybeans (130), seed corn (124), red clover (103), Sudan grass (102), and rapeseed (101).

RETAIL SALES (TONNAGE) OF FIELD SEEDS IN SPRING, 1942, COMPARED WITH 1941

New York	RETAIL S	ALES (TONNA	GE) O	F FIELD	SEEDS	IN SI	PRING,	1942, (COMPA	RED W	ITH 194	11
States	State	No. of	Al-	Dod	A 10:1-0	C-sect	White	To	Lespe	edeza	Corr	Corr	Sood
New England. 33		re-	fal-										
Sew of Name 193	States	ports			I								
Sew of Name 193				%	%	%	%	% .		%	%	7/0	%
Sew of Name 193	New England	33	95	110	95	115	[*] 50	130					125
New Jersey. 24 90 100 95 105 115 175 125 135 150 Maryland 23 90 136 100 95 100 165 110 90 115 170 170 170 170 170 170 170 170 165 110 90 150 170 170 170 170 170 170 170 170 170 17	New York	64	105		95	90	70	160					100
Maryland	Pennsylvania						70		120			120	105
Maryland	New Jersey												
West Virginia	Maryland							165					
Southeastern	Virginia					100	70		1 .	90	90_		
Southeastern	West Virginia		110		100				80				
Kentucky	Southeastern		65										
Ohlo. 91 100 105 90 95 105 133	Tennessee									110			
Indiana	Kentucky										120		
Illinois	Ohio												
Illinois	Indiana		100	115	100	80	75				75	85	
Missouri 57 80 75 70 100 90 65 90 115 168 Wisconsin 100 90 95 90 80 100 100 130 130 130 Misconsin 100 90 95 90 80 100 100 130 151 115 145 115 115 115 115 115 115 115 115 115 115 115 115 110 185 110 110 140 185 110 110 140 110 150 110 140 100 110 140 100 110 140 110 140 110 140 110 140 110 140 110 140 110 140 110 140 110 140 110 140 110 140 110 140 110 140 110 140 110 140 140 140	Illinois												
Michigan 98 100 105 100 90 85 100 100 133 130 130 130 130 130 130 130 130 130 130 130 130 130 130 130 130 130 130 130 130 130 135 130 Morth Dakota 29 65 70 80 95 50 60 185 130 South Dakota 26 65 70 80 95 66 10 103 185 110 Kansas 51 80 105 150 105 60 100 10 10 105 110 110 120 105 110 110 120 10 10 10 10 120 10 10 120 10 10 10 10 120 10 10 10 10 10 10 10 10 10 10	Iowa												110
Wisconsin. 100 90 95 90 80 100 110 50 125 Minnesota. 80 65 70 80 95 50 65 145 115 North Dakota. 26 65 70 80 95 50 85 81 130 South Dakota. 26 65 70 80 95 65 100 110 125 110 Nebraska. 47 80 105 150 105 60 100 130 250 130 Oklahoma. 27 75 100 105 100 100 130 110 140 175 110 125 100 101 140 175 130 125 110 125 100 100 140 175 120 120 100 100 150 100 100 120 100 100 120 100 120 100 10	Missouri												165
Minnesota	Michigan		100		100		_		100				
North Dakota	Wisconsin										110		
South Dakota	Minnesota					95					65		115
Nebraska	North Dakota												
Kansas	South Dakota												
Oklahoma 27 75 95 110 125 100 110 140 175 15 105 95 130 110 75 130 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 160 160 12 100 100 150 100 100 150 100 100 150 100 100 150 100 110 120 110 120 110 120 110 120 110 110 100 100 110 110 100 100 110 100 100 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110													
Arkansas. 8 7 100 - 60 90 105 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150	Kansas			105	150								
Texas	Oklahoma		75			95	110						
New Mexico	Arkansas						<u></u>						
Montana	Texas					105			130	110	75	130	
Colorado 26 65 175 115 95 75 125 130 100 104 104 105 105 104 105 104 105 104 105 105 104 105 106 105 105 106 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105	New Mexico												
Idaho.	Montana						75						
Washington 18 85 85 90 85 60 0 90 Oregon 15 80 115 100 95 110 120 90 115 100 95 110 120 90 115 0 110 100 U. S. Average 1,459 87 103 94 89 85 135 94 95 87 130 120 State or States Timo-or States thy top Blue-grass Meadow grass Brome-grass Crested wheat-grass grass grass grass	Colorado						75					130	
Oregon	Idaho							100					115
California 21 90	wasnington												
S. Average	California			115									
State or States Timo-thy Red-top Ky. dead grass Meadow grass Brome-fescue grass Crested grass Rye-grass Sudan grass Corgon ("Cane") Mil- seed New England. 65 80 80 110 % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % %	U.C. A			100									
or States thy top Blue grass chard grass Fescue grass grass grass wheat grass grass Surface grass Surfa	U. S. Average	1,459	87	103	94	89	85	135	94	95	87	130	124
States	State	Time	D 1	Kv	Or.	2.6.1		Crested		1	1 _	2 511	-
New England				1170	Or-			Cicocca	Dave	1 Cardon	Commo		
New York										1			
New York		thy	top	Blue- grass	chard grass	Fescue	grass	wheat-	grass	grass		let	seed
New York	States	thy	top	Blue- grass	chard grass	Fescue	grass	wheat- grass	grass	grass	("Cane")	let	seed
New Jersey	States New England	thy % 65	top 	Blue- grass % 80	chard grass % 110	Fescue %	grass	wheat- grass	grass % 85	grass % 80	("Cane")	let %90	seed
Maryland 60 65 100 115 110 110 150 105 105 Virginia 85 90 100 115 110 100 105 145 85 West Virginia 100 120 110 90 110 140 105 105 Southeastern 115 115 105 80 95 105 85 85 Tennessee 75 110 110 65 70 130 160 120 110 Kentucky 95 100 85 65 130 130 130 110 100 100 Ohio 95 100 85 125 130 130 130 110 100 122 Indiana 95 85 85 85 90 165 110 145 130 90 122 Illinois 90 90 110 115 110 <td< td=""><td>States New England New York</td><td>thy % 65 85</td><td>top % 80 75</td><td>Blue- grass % 80 95</td><td>chard grass % 110 150</td><td>%</td><td>grass %</td><td>wheat- grass %</td><td>grass % 85</td><td>grass % 80</td><td>("Cane")</td><td>let</td><td>seed</td></td<>	States New England New York	thy % 65 85	top % 80 75	Blue- grass % 80 95	chard grass % 110 150	%	grass %	wheat- grass %	grass % 85	grass % 80	("Cane")	let	seed
Virginia 85 90 100 115 110 100 105 145 85 West Virginia 100 120 110 90 110 140 105 105 85 85 85 85 85 85 85 85 85 85 85 85 85 85 85 85 85 85 85 85 85 85 85 85 85 85 85 85 85 80 96 100 100 100 100 100 100 100 100 100 100 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110	States New England New York Pennsylvania	thy % 65 85 100	top % 80 75 85	Blue- grass	chard grass % 110 150	% 100 110	grass	wheat- grass %	grass % 85 90 110	grass % 80 115 110	("Cane") % 95 175	let	seed % 120 130 85
West Virginia 100 120 110 90 110 140 105 105 80 Southeastern 115 115 105 80 95 105 85 80 95 105 85 80 95 100 85 65 110 100 95 100 95 100 85 65 110 105 100 95 105 Ohio 95 100 85 65 110 105 100 95 105 Indiana 95 85 85 85 85 85 85 105 110 145 130 90 125 Illinois 90 90 110 115 110 110 120 135 110 100 Illinois 90 90 110 115 110 10 120 135 110 10 Missouri 60 90 80 105 <	New England New York Pennsylvania New Jersey	thy 65 85 100 95	top 80 75 85 120	Blue- grass	chard grass % 110 150 120	% 100 110	grass	wheat-grass %	grass % 85 90 110 95	grass % 80 115 110 95	("Cane") % 95 175 160	let % 90 100 70	seed 7/0 120 130 85 100
Southeastern 115 115 115 105 80 95 105 85 85 Tennessee 75 110 110 65 70 130 160 120 110 Kentucky 95 100 85 65 110 105 100 95 100 Ohio. 95 100 85 125 130 130 130 110 100 120 Indiana 95 85 85 85 85 90 165 110 145 130 90 120 Illinois 90 90 110 115 110 110 120 135 110 100 100 100 190 80 105 100 115 85 90 95 110 90 80 80 105 100 110 120 135 110 110 100 100 100 100 100 100	New England New York Pennsylvania New Jersey Maryland	thy 65 85 100 95 60	top 80 75 85 120 65	Blue- grass	chard grass % 110 150 120	Fescue 7/0 100 110 90	grass %	wheat-grass	grass % 85 90 110 95 110	9788 80 115 110 95 110	95 175 160 150	let	seed 120 130 85 100 105
Tennessee 75 110 110 665 70 130 160 120 110 Kentucky 95 100 85 65 130 110 105 100 95 100 Ohio 95 100 85 125 130 130 130 110 100 120 Indiana 95 85 85 85 90 165 110 145 130 90 125 Illinois 90 90 110 115 110 110 120 135 110 10 Ilowa 95 85 105 100 115 85 90 95 110 90 80 Missouri 60 90 80 105 100 10 90 95 110 90 80 Missouri 60 90 80 150 95 75 95 115 125 130 130 </td <td>States New England New York Pennsylvania New Jersey Maryland Virginia</td> <td>thy 65 85 100 95 60 85</td> <td>top 80 75 85 120 65 90</td> <td>Blue- grass</td> <td>chard grass // 110 150 120</td> <td>Fescue 7/0 100 110 90</td> <td>grass %</td> <td>wheat-grass</td> <td>grass % 85 90 110 95 110 110</td> <td>% 80 115 110 95 110 100</td> <td>95 175 160 150 105</td> <td>let</td> <td>seed 7/0 120 130 85 100</td>	States New England New York Pennsylvania New Jersey Maryland Virginia	thy 65 85 100 95 60 85	top 80 75 85 120 65 90	Blue- grass	chard grass // 110 150 120	Fescue 7/0 100 110 90	grass %	wheat-grass	grass % 85 90 110 95 110 110	% 80 115 110 95 110 100	95 175 160 150 105	let	seed 7/0 120 130 85 100
Kentucky 95 100 85 65 110 105 100 95 105 Ohio. 95 100 85 125 130 130 130 110 100 120 Indiana 95 85 85 85 90 165 110 145 130 90 90 125 Illinois 90 90 110 115 110 110 120 135 110 110 Iwa 95 85 105 100 115 85 90 95 110 90 80 Missouri 60 90 80 105 100 90 105 110 90 75 Missouri 60 90 80 155 100 105 120 115 125 130 130 Wisconsin 90 95 80 75 100 105 120 115 95<	States New England New York. Pennsylvania. New Jersey. Maryland. Virginia. West Virginia.	thy 65 85 100 95 60 85	top	Blue- grass	chard grass % 110 150 120	Fescue 70 100 110 90	grass	wheat-grass	grass % 85 90 110 95 110 110	grass	95 175 160 150 105	1et 70 90 100 70	seed 120 130 85 100 105 85
Ohio. 95 100 85 125 130 130 130 110 100 120 Indiana 95 85 85 85 85 90 165 110 145 130 90 125 Illinois 90 90 110 115 110 110 120 135 110 110 Iowa 95 85 105 100 115 85 90 95 110 90 80 Missouri 60 90 80 105 100 100 90 105 110 90 80 Missouri 60 90 80 75 100 105 95 115 125 130 130 Misconsin 90 95 80 75 100 105 120 115 125 130 130 Minnesota. 80 80 75 100 1	New England New York Pennsylvania New Jersey Maryland Virginia West Virginia Southeastern	thy % 65 85 100 95 60 85 100	top % 80 75 85 120 65 90 120 115	Blue- grass	chard grass	% 100 110 90	grass %	wheat-grass %	grass	grass	("Cane") 95 175 160 150 105 105	let 90 100 70 145 105 85	seed 120 130 85 100 105 85
Indiana	New England New York Pennsylvania New Jersey Maryland Virginia West Virginia Southeastern Tennessee	thy 65 85 100 95 60 85 100 75	80 75 85 120 65 90 120 115 110	Blue-grass % 80 95 100 110 100 110 110 115 110	chard grass % 110 150 120 115 90 105 65	% 100 110 90	grass %	wheat-grass %	95 110 95 110 110 80 70	grass	("Cane")	let 90 100 70	seed 7/6 120 130 85 100 105 85 85 110
Illinois	New England New York Pennsylvania New Jersey Maryland Virginia West Virginia Southeastern Tennessee Kentucky	thy	top 80 75 85 120 65 90 120 115 110 100	Blue-grass % 80 95 100 110 100 110 115 110 85	chard grass // 110 150 120 115 90 105 65 65	Fescue % 100	grass %	wheat-grass %	97 85 90 110 95 110 110 80 70 110	grass	("Cane") 95 175 160 150 105 105 105 100 100	let 90 100 70	seed 120 130 85 100 105 85 85 110 105
Nova	New England New York Pennsylvania New Jersey Maryland Virginia West Virginia Southeastern Tennessee Kentucky Ohio.	thy % 65 85 100 95 60 85 100 75 95 95	top 80 75 85 120 65 90 120 115 110 100 100	Blue- grass 80 95 100 110 100 110 115 110 85 85	chard grass // 110 150 120 115 90 105 65 65 125	Fescue % 100 110 90	grass	wheat-grass %	grass	grass	("Cane") 7/6 175 160 150 105 105 100 110	let 90 100 70	seed 120 130 85 100 105 85
Missouri 60 90 80 105 100 90 105 110 90 75 Michigan 100 100 100 150 95 75 95 115 125 130 130 Wisconsin 90 95 80 75 100 105 120 115 95 100 105 Minnesota 80 80 75 100 105 55 50 75 95 105 75 75 North Dakota 60 85 100 70 60 110 115 70 75 75 South Dakota 115 120 110 80 90 100 110 100 100 70 Nebraska 90 100 80 100 95 115 85 105 85 90 95 Kansas 85 75 95 60 75 145 150 <	New England New York Pennsylvania New Jersey Maryland Virginia West Virginia Southeastern Tennessee Kentucky Ohio Indiana	thy % 65 85 100 95 60 85 100 75 95 95 95	top % 80 75 85 120 65 90 120 115 110 100 100 85	Blue- grass 80 95 100 110 100 110 115 110 85 85 85	chard grass // 110 150 120 115 90 105 65 65 125 85	Fescue % 100 110 90	grass	wheat-grass %	grass	grass	("Cane") % 95 175 160 150 105 105 100 110 130	let 76 90 100 70	seed 120 130 85 100 105 85 110 105 120 125
Michigan 100 100 100 150 95 75 95 115 125 130 130 Wisconsin 90 95 80 75 100 105 120 115 95 100 105 Minnesota 80 80 75 5 55 50 75 95 100 105 Minnesota 80 80 75 55 50 75 95 100 105 Morth Dakota 115 120 110 80 90 100 110 100 100 100 100 70 75 135 70 75 130 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100	New England New York Pennsylvania New Jersey Maryland Virginia West Virginia Southeastern Tennessee Kentucky Ohio Indiana Illinois	thy 65 85 100 95 60 85 100 75 95 95 95 90	top % 80 75 85 120 65 90 120 115 110 100 85 90 90	Blue- grass 80 95 100 110 100 110 115 110 85 85 85 110	chard grass // 110 150 120 115 90 105 65 65 125 85 115	% 100 110 90 90	grass %	wheat-grass %	95 110 95 110 80 70 110 130 110 110	grass 80 115 110 95 110 100 140 95 130 105 130 145	("Cane") 95 175 160 150 105 105 100 110 130 135	let 90 100 70145 105 85 120 95 100 90 110	seed 7/0 120 130 85 100 105 85 110 105 120 125 110
Wisconsin 90 95 80 75 100 105 120 115 95 100 105 Minnesota 80 80 75 55 50 75 95 105 75 75 North Dakota 60 85 100 70 60 110 115 70 75 130 South Dakota 115 120 110 80 90 100 110 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 </td <td>States New England New York. Pennsylvania. New Jersey. Maryland. Virginia. West Virginia. Southeastern. Tennessee Kentucky. Ohio Indiana Illinois. Iowa</td> <td>thy 65 85 100 95 60 85 100 75 95 95 95 95 90 95</td> <td>80 75 85 120 65 90 120 115 110 100 85 90 85</td> <td>Blue- grass 80 95 100 110 100 110 115 110 85 85 85 110 105</td> <td>chard grass 110</td> <td>% 100 110 90 90</td> <td>130 165 110</td> <td>wheat-grass %</td> <td>97 85 90 110 95 110 110 80 70 110 130 110 90</td> <td>grass</td> <td>("Cane") 95 175 160 150 105 105 100 110 130 135 110</td> <td>let 90 100 70 145 105 85 120 95 100 90 110 90</td> <td>seed 7/0 120 130 85 100 105 85 85 110 105 120 125 110 80</td>	States New England New York. Pennsylvania. New Jersey. Maryland. Virginia. West Virginia. Southeastern. Tennessee Kentucky. Ohio Indiana Illinois. Iowa	thy 65 85 100 95 60 85 100 75 95 95 95 95 90 95	80 75 85 120 65 90 120 115 110 100 85 90 85	Blue- grass 80 95 100 110 100 110 115 110 85 85 85 110 105	chard grass 110	% 100 110 90 90	130 165 110	wheat-grass %	97 85 90 110 95 110 110 80 70 110 130 110 90	grass	("Cane") 95 175 160 150 105 105 100 110 130 135 110	let 90 100 70 145 105 85 120 95 100 90 110 90	seed 7/0 120 130 85 100 105 85 85 110 105 120 125 110 80
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North Dakota 60 85 100 70 60 110 115 70 75 130 South Dakota 115 120 110 80 90 100 110 100 100 70 Nebraska 90 100 80 100 95 115 85 105 85 90 95 Kansas 85 75 95 60 75 145 150 90 95 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 80 80 90 85 100 100 <	States New England New York Pennsylvania New Jersey Maryland Virginia West Virginia Southeastern Tennessee Kentucky Ohio Indiana Illinois Iowa Missouri Michigan	thy 65 85 100 95 60 85 100 75 95 95 95 90 100	100 80 75 85 120 65 90 120 115 110 100 85 90 85 90 100	Blue-grass % 80 95 100 110 100 110 115 110 85 85 85 110 105 80 100	chard grass // 110 150 120	Fescue 100	130 165 110 115 100 75	wheat-grass %	97 85 90 110 95 110 110 80 70 110 130 110 90 90 95	grass	("Cane") 95 175 160 150 105 105 105 100 110 130 135 110 110 125	let 90	seed 7/6 120 130 85 100 105 85 85 110 105 120 125 110 80 75 130
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Nebraska 90 100 80 100 95 115 85 105 85 90 95 Kansas 85 75 95 60 75 145 150 90 95 90 90 90 70 Oklahoma 100 110 100 100 100 105 140 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110	States New England New York Pennsylvania New Jersey Maryland Virginia West Virginia Southeastern Tennessee Kentucky Ohio Indiana Illinois Iowa Missouri Michigan Wisconsin Minnesota	75 95 95 95 95 95 95 95 90 95 60 100 90 80	top % 80 75 85 120 65 90 120 115 110 100 85 90 85 90 100 95 80	Blue- grass 80 95 100 110 100 110 115 110 85 85 85 110 105 80 100 80 75	chard grass % 110 150 120	90 100 100 110 90 100	130 165 110 115 100 75 105 55	wheat-grass %	grass	grass	("Cane") 95 175 160 150 105 105 105 100 110 130 135 110 110 125 95 105	let 76 90 100 70 145 105 85 120 95 100 90 130 100 75	seed // 120 130 85 100 105 85 110 105 120 125 110 80 75 130 105 75
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Arkansas	States New England. New York. Pennsylvania. New Jersey. Maryland. Virginia. West Virginia. Southeastern. Tennessee Kentucky. Ohio. Indiana Illinois. Iowa. Missouri. Michigan. Wisconsin. Minnesota. North Dakota South Dakota Nebraska.	thy 65 85 100 95 60 85 100 75 95 95 95 90 90 80 60 115 90	100 80 75 85 120 65 90 120 115 110 100 100 85 90 100 95 80 85 120 100	Blue-grass % 80 95 100 110 100 110 115 110 85 85 85 110 105 80 100 80 75 100 110 80	chard grass % 110 150 120 115 90 105 65 65 125 85 115 105 150 75 100	90 100 100 110 90 100	130 165 110 115 100 75 105 55 70 80 95	wheat-grass % 85 50 60 90 115	97 85 90 110 95 110 110 110 110 90 95 120 75 110 100 85	grass	("Cane") 95 175 160 150 105 105 160 100 110 130 135 110 110 125 95 105 70 100 85	let 90 100 70 145 105 85 120 95 100 90 110 90 130 100 75 100 90 90 90 100 90 90 100 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90	seed 7/0 120 130 85 100 105 85 110 105 120 125 110 80 75 130 105 75 130 95
Texas 70 95 80 90 85 New Mexico 100 100 105 115 160 100 105 105 Montana 100 85 100 100 105 115 160 100 60 85 Colorado 90 80 90 120 110 75 100 60 70 80 Idaho 95 100 100 100 120 100 Washington 85 80 70 90 100 120 110 95 100 Oregon 70 90 90 95 80 90 80 125 125 125 California 85 130 100 100 105 100	States New England New York Pennsylvania New Jersey Maryland Virginia West Virginia Southeastern Tennessee Kentucky Ohio Indiana Illinois Iowa Missouri Michigan Wisconsin Minnesota North Dakota South Dakota Nebraska Kansas	thy 65 85 100 95 60 85 100 75 95 95 95 90 90 80 60 115 90 85	100 80 75 85 120 65 90 120 115 110 100 85 90 100 95 80 100 75	Blue-grass % 80 95 100 110 100 110 115 110 85 85 85 110 105 80 100 80 75 100 110 80 95	chard grass 7/6 110 150 120	90 100 100 110 90 100	130 165 110 115 100 75 105 55 70 80 95	wheat-grass % 85 50 60 90 115 150	97 85 90 110 95 110 110 80 70 110 130 110 95 120 75 110 100 85 90	grass	("Cane")	let 90 100 70	seed 120
New Mexico 100 85 100 100 105 115 160 100 60 85 Colorado 90 80 90 120 110 75 100 60 70 80 Idaho 95 100 100 100 90 120 100 Washington 85 80 70 90 100 120 110 95 100 Oregon 70 90 90 95 80 90 80 125 125 125 California 85 130 100 105 100 105	States New England New York Pennsylvania New Jersey Maryland Virginia West Virginia Southeastern Tennessee Kentucky Ohio Indiana Illinois Iowa Missouri Michigan Wisconsin Minnesota North Dakota South Dakota North Dakota Noth Dakota North Dakota South Dakota North South North Dakota South Dakota South Dakota	thy 65 85 100 95 60 85 100 75 95 95 95 90 90 80 60 115 90 85	100 80 75 85 120 65 90 120 115 110 100 85 90 100 95 80 100 75	Blue-grass % 80 95 100 110 100 110 115 110 85 85 85 110 105 80 100 80 75 100 110 80 95	chard grass 7/6 110 150 120	90 100 100 110 90 100	130 165 110 115 100 75 105 55 70 80 95	wheat-grass	97 85 90 110 95 110 110 80 70 110 130 110 95 120 75 110 100 85 90	grass 80 115 110 95 110 100 140 95 130 105 130 145 120 95 105 115 115 95 115 110 105 95 105	("Cane")	let 90 100 70 145 105 85 120 95 100 90 130 100 75 100 90 90 110 90 90 110 110 110 110 110 100 110 110 110 110 110 110 100 110 110 110 100 110 110 110 100 110 110 110 100 110 110 110 110 100 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 1	seed 7/0 120 130 85 100 105 85 110 105 120 125 110 80 75 130 105 75 130 95
Montana. 100 85 100 100 105 115 160 100 60 85 Colorado 90 80 90 120 110 75 100 60 70 80 Idaho 95 100 100 100 90 120 100 Washington 85 80 70 90 90 120 110 95 100 Oregon 70 90 90 95 80 90 80 125 125 120 California 85 130 100 105	States New England New York Pennsylvania New Jersey Maryland Virginia West Virginia Southeastern Tennessee Kentucky Ohio Indiana Illinois Iowa Missouri Michigan Wisconsin Minnesota North Dakota South Dakota Nebraska Kansas Oklahoma Arkansas	thy 65 85 100 95 60 85 100 75 95 95 95 90 90 80 60 115 90 85	100 80 75 85 120 65 90 120 115 110 100 85 90 100 95 80 100 75	Blue-grass % 80 95 100 110 100 110 115 110 85 85 85 110 105 80 100 80 75 100 110 80 95	chard grass 7/6 110 150 120	90 100 100 110 90 100	130 165 110 115 100 75 105 55 70 80 95	wheat-grass	grass 85 90 110 95 110 110 110 110 110 110 110 110 90 9	grass 80 115 110 95 110 100 140 95 130 105 130 145 120 95 115 115 115 115 110 105 95 115 110 105 115 110 105 115 110	("Cane")	let 90 100 70	seed // 120 130 85 100 105 85 110 105 120 125 110 80 75 130 105 75 130 70 95 70 115
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U. S. Seed Verification Service, Agricultural Marketing Administration, U.S.D.A.

		Red			Dad
	Alfalfa			Alfalfa	$egin{array}{c} Red \ Clover \end{array}$
Mark Means Company, Lewistown	х		Michael-Leonard Seed Co., Billings *The Searle Seed Co., Lewistown	. x	
ILLINOIS			NEBRASKA		
The Albert Dickinson Company, Chicago	x	x	N. Bonahoom Seed Co., Hastings	77	
Funk Bros. Seed Co., Bloomington Kelly Seed Company, Peoria	x x	x x	The Bowman Seed Company, Superior	x	
Midwest Seed Co., Mt. Vernon	x	x	Carberry Seed Company, Columbus	. x	
, and the second			Carberry Seed Company, Norfolk	. X	
INDIANA			Kollman-Warner Co., Inc., Norfolk	x	x
Allied Seed Company, Inc., Fort Wayne	x	x	Lauber Seed Company, York	x	44
Crabbs Reynolds Taylor Co., Crawfordsville.	x	x	Nebraska Seed Co., Omaha	x	x
Crawfordsville Seed Co., Inc., Crawfordsville Davis Seed Company, Lebanon	x x	x	Yager Seed Co., Fremont	X	
Foster-Kendall Co., Carmel	x	x	NEW YORK		
Indiana Seed Company, Indianapolis	x	x	Arthur R. Cone, Buffalo	x	x
YOUT A			Craver-Dickinson Seed Co., Inc., Buffalo	x	x
IOWA			The Stanford Seed Co., Inc., Buffalo	x	x
Davenport Seed Company, Inc., Davenport Dubuque Seed Co., Dubuque	X	**		x	x
Hamilton Seed & Coal Co., Cedar Rapids	x x	x x	NORTH DAKOTA		
Lynnville Seed Co., Lynnville	x		Goldberg Seed & Feed Company, Fargo	x	x
Michael-Leonard Seed Co., Sioux City	x		Interstate Seed & Grain Co., Fargo Newday Seeds, Inc., Fargo	x	
Northwestern Seed Co., Inc., Keokuk Ouren Seed Co., Council Bluffs	X X	x	newday beeds, me., rargo	x	x
Standard Seed Co., Des Moines	x		OHIO		
Wertz and Company, Sioux City	x		The Ackerman Co., Lima, Ohio	x	x
TZ A NIC A C			Henry Hirsch & Sons, Inc., Toledo	x	x
KANSAS			The J. Chas. McCullough Seed Co., Cincinnati O. M. Scott & Sons Company, Marysville	x x	X X
The L. C. Adam Merc. Co., Cedar Vale Assaria Hardware Co., Assaria	x x		oniparty, many by mic	A	Α.
The Bowman Seed Co., Concordia	x		OKLAHOMA		
Frazier's Seed Store, Coffeyville	x		E. O. Billingslea Grain Co., Frederick	x	
Hutchinson Feed & Seed Company, Hutchinson	**		Hardeman-King Company, Oklahoma City W. B. Johnston Grain Company, Enid	x	
T. A. Kelley Company, Salina	x		Keller Seed Store, Shawnee	x	
Salina Seed Co., Salina	x		Oklahoma Improved Seed Co., Inc., Chickasha	x	
Sedgwick Alfalfa Mills, Sedgwick	x		PENNSYLVANIA		
MARYLAND			A. H. Hoffman, Inc., Landisville		
The Belt Seed Co., Inc., Baltimore			E. J. Houck & Son, Bangor	x	x x
Wm. G. Scarlett & Co., Baltimore	x x	x x	The Philadelphia Seed Co., Inc., Philadelphia	x	
	22	Α.	Seaboard Seed Company, Philadelphia	x	x
MICHIGAN			SOUTH DAKOTA		
H. C. King & Sons, Inc., Battle Creek McLaughlin, Ward & Co., Jackson	X X	x x	Dakota Improved Seed Co., Mitchell	x	
Parks Seed Company, Jackson	X	x	General Sales, Inc., Sioux Falls	x	
			Geo. P. Sexauer & Son, Brookings	x	
MINNESOTA			TENNESSEE		
Cargill, Incorporated, Seed Division, Minne-			Green Brothers, Nashville		
apolis	x x	x	Russell-Heckle Seed Company, Memphis	x x	
Ira P. Hinman, Minneapolis	x	x	•	Α.	
Land O'Lakes Creameries, Inc., Thief River			TEXAS		
Falls	x	x	Martin-Lane Co., Vernon	x	
Williams	x	x	UTAH		
Northrup, King & Company, Minneapolis	x x	x	Kelly-Western Company, Salt Lake City	x	x
Peterson-Biddick Co., Wadena	x	25.	Occidental Seed Co., Salt Lake City	x	x
Seldon-Watts Seed Co., St. Paul.	x	x	WISCONSIN		
Twin City Seed Company, Minneapolis	X	x	Courteen Seed Co., Milwaukee	x	x
MISSOURI			Kellogg Seed Company, Milwaukee	x	x
Corneli Seed Company, St. Louis	v	45	LaCrosse Seed Company, LaCrosse. L. L. Olds Seed Company, Madison.	x x	X X
Ed. F. Mangelsdorf & Bro., Inc., St. Louis	x x	X	Standard Seed & Feed Company, Madison	x	Α
Peppard Seed Co., Kansas City	x		L. Teweles Seed Co., Milwaukee	x	x
Rudy-Patrick Seed Co., Kansas City	x		* Indicates dealer not in the service in 1941-42.		

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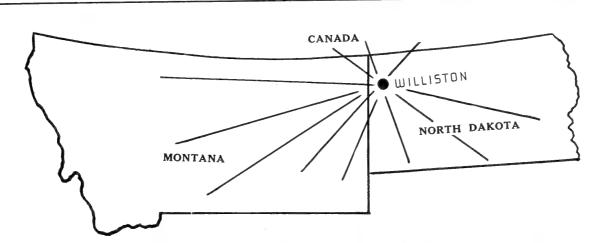
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Noxious Weeds of United States

The weeds considered noxious by the states and the District of Columbia are given in the following list. There is considerable variation in the common names used for the same weeds in different parts of the country and in all cases the scientific names given do not clear up this confusion. Listed under the most commonly used names will be found the states legislating against that particular weed or species (spp.) of weeds. No effort has been made to show how the weeds are classified or legislated against by the states, this may be obtained from the State Seed Laws (see page 106 and following).

Compiled by L. J. LA PINE

Commercial Seed Analyst

Alkali mallow (Sida hederacea). See Mallow, alkali.

Alyssum, Hoary (Berteroa incana). See Hoary alyssum. Australian burnweed (Erechtites pre-

nanthoides). See Burnweed, Austra-

Austrian fieldcress (Radicula austriaca, Rorippa austriaca). See Fieldcress,

Austrian peaweed (Swainsona salsula).

B

Ball cress (Hymenophysa pubescens).

See Hoary cress. Ball mustard (Neslia paniculata). See Mustard, ball.

Barley, wild (Hordeum jubatum, H. murinum) Squirrel-tail grass. Ariz.,

Bassia, five-hook (Bassia hyssopifolia). Cal., Nev.

Bearded darnell (Lolium temulentum). See Darnell, bearded.

Bermuda grass (Cynodon dactylon, Capriola dactylon) Wire grass. Ala., Fla., Ga., La., Md., Miss., Okla., Tex., U., Va., D. C.

Big mouse-ear (Cerastium vulgatum). See Chickweed, big mouse-ear.

Bindweed, field (Convolvulus arvensis) Creeping Jennie, Morning-glory, Tievine, Wild morning-glory. Ala., Ariz., Ark., Cal., Colo., Ga. (spp), Ida., Ill., Ind., Ia., Kan., La., Me., Md., Mich., Minn., Miss., Mo., Mont., Neb., Nev., N. C., N. Dak., Okla., Ore., Pa. (spp), S. Dak., Tex. (spp), U., Wash., Wis., Wyo., D. C.

Bindweed, hedge (Convolvulus sepium) Wild morning-glory. Ark., Ga. (spp), Ida., Okla., Pa. (spp), S. Dak., Tex. (spp), Wash.

Bitter dock (Rumex obtusifolius). See Dock, bitter.

Bitterweed (Helenium tenuifolium). Ga. Bitter wintercress (Campe barbarea).
See Wintercress, bitter.

Black-eye Susan (Rudbeckia hirta) Oxeye daisy. La.

Black mustard (Brassica nigra). See Mustard, black.

Black nightshade (Solanum nigrum). See Nightshade, black.

Black seeded plantain (Plantago ru-gelii). See Plantain, black seeded. Bladder campion (Silene latifolia). See

Campion, bladder. Blue bur (Lappula echinata). See Stick-

Blue flowering lettuce (Lactuca pul-

chella). See Lettuce, blue flowering. Blue sunflower (Helianthus ciliaris).
See Blueweed. Texas.

Blueweed (Echium vulgare). Me., Okla. Blueweed, Texas (Helianthus ciliaris)
Blue sunflower. Ariz., Cal., Tex.

Bottle bush plantain (Plantago aristata). See Plantain, bracted.

Bracted plantain (*Plantago aristata*). See Plantain, bracted.

Buckhorn plantain (Plantago lanceolata) English plantain (Plantago lanceolata) English plantain. Ala., Ariz., Ark., Colo. (spp), Conn. (spp), Ga. (spp), Ida., Ill., Ind., Ia., Kan., Ky., Me., Mass., Minn., Miss. (spp), Mo. (spp), O. (spp), Okla., Ore., R. I., Tex., U., Wash. (spp), W. Va., Wis. Buckwheat, wild (Polygonum convolvulus). Okla

vulus). Ókla.

Buffalo bur (Solanum rostratum). Nev.,

Bull nettle (Solanum carolinense). See Horse nettle.

Bullthistle (Cirsium lanceolatum). Burdock, great (Arctium lappa). Burdock, smaller (Arctium minus). Bur grass (Cenchrus pauciflorus). See

Sand bur. Burnweed, Australian (Erechtites prenanthoides) Fireweed. Ore. Butterprint (Abutilon theophrasti). Ia.

C

Camelthorn (Alhagi camelorum). Ariz., Cal., Nev., Wash., Wyo. Campion, bladder (Silene latifolia). Me.

Campion, white (Lychnis alba). Me. Canada thistle (Cirsium arvense, Carduus arvensis). Ala., Ariz., Cal., Colo., duus arvensis). Ala., Aliz., Cai., Coio., Conn., Del., Fla., Ga., Ida., Ill., Ind., Ia., Kan., Ky., Me., Md., Mass., Mich., Minn., Mo., Mont., Neb., Nev., N. J., N Y., N. Dak., O., Okla., Ore., Pa., R. I., S. C., S. Dak., Tenn., U., Vt., Va., Wash., W. Va., Wis., Wyo. D. C. Carrot, wild (Daucus carota). Ill., Ind., Ia Kan Me Mich. Mo. O., R. I.

Ia., Kan., Me., Mich., Mo., O., R. I., S. Dak., W. Va.

Catchfly, night-flowering (Silene noctifiora). Me.

Cats-ear, spotted (Hypochaeris radi-cata). Ore.

Charlock (Brassica arvensis). See Mustard, wild.

Cheat) (Bromus secalinus, B. comnu*tatus*). Ala., Ark., Colo., Ga. (spp), Kan. (spp), N. C., Okla., S. C., Tex.

Chickweed, big mouse-ear (Cerastium vulgatum). Ore. Chicory, wild (Cirhorium intybus). Me.,

Clustered dock (Rumex conglomeratus). See Dock, green.

Cocklebur (Xanthium canadense). La. Cocklebur (Xanthium commune). Ia. Cocklebur (Xanthium orientale). U. Coco grass (Cyperus rotundus). See Nutgrass.

Coffee weed (Cassia tora). Ga.

Common plantain (Plantago major). See Plantain, common.

Common ragweed (Ambrosia artemisiifolia). See Ragweed, common. Common sowthistle (Sonchus olera-

ceus). See Sowthistle, common. Corncockle (Agrostemma githago). Ala., Ark., Colo., Fla., Ga., Ida., Ind., Kan., Ky., Me., N. C., O., Okla., Ore., R. I., S. C., Tenn., Vt., Wash., W. Va.

Cowcockle (Saponaria vaccaria, Vac-caria pyramidata) Cow-herb. Colo., Me., Ore.

Cow-herb (Saponaria vaccaria). See Cowcockle.

Crabgrass, smooth (Digitaria ischae-mum). Cal., Colo., Nev., N. Y. (spp). Crabgrass (Digitaria sanguinalis). Cal., Colo., La., Nev., N. Y. (spp), R. I.

(spp).

Creeping Jennie (Convolvulus arvensis). See Bindweed, field.

Cress, hoary (Lepidium draba, L. repens). See Hoary cress. Curly dock (Rumex crispus). See Dock,

curly.

Daisy fleabane (Erigeron ramosus). See Fleabane, daisy.

Daisy, oxeye (Chrysanthemum leucanthemum). See Oxeye daisy.

Dandelion (Leontodon spp). Ore. Dandelion, false (Pyrrhopappus carolinianus). La.

Darnel (Lolium temulentum). Ark., Ga., Me., Tex. Ala..

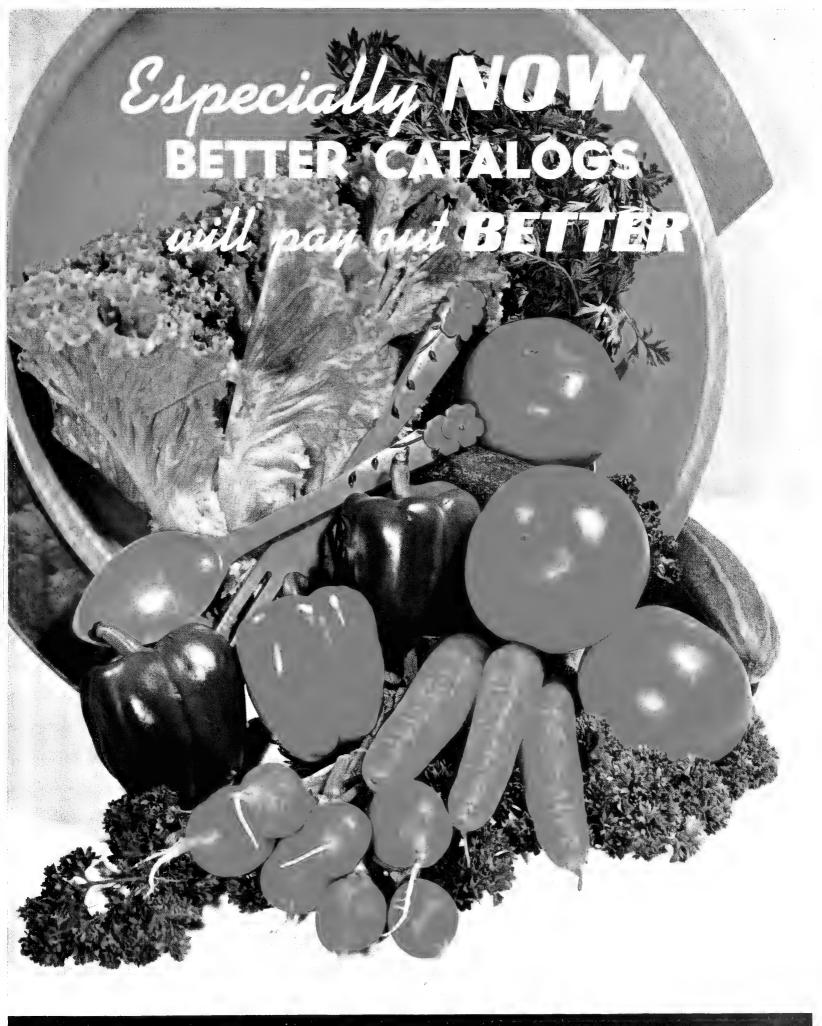
Deathweed (Iva axillaris). See Pover-

Devil's paintbrush (Hieracium aurantiacum). See Hawkweed, orange.

Dock, bitter (Rumex obtusifolius).
Large dock. Ala., Ark., Kan. (spp),
La., Me., Miss. (spp), Mo. (spp), N. Y.
(spp), O. (spp), R. I. (spp), Wash.

Dock, curly (Rumex crispus) Sour dock, Yellow dock. Ala., Ark., Conn., Ill., Ind., Ia., Kan. (spp), Me., Miss. (spp), Mo. (spp), N. Y. (spp), O. (spp), Okla., R. I. (spp), Tex., Wash. (spp).

Dock, green (Rumex conglomeratus) Clustered dock. Ark., Kan. (spp), Me., Miss. (spp), Mo. (spp), N. Y. (spp), O. (spp), R. I. (spp), Wash. (spp).

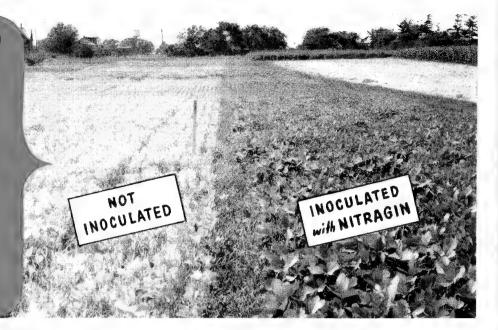


A.B. Marse Campany ST. JOSEPH MICHIGAN

HORTICULTURAL PRINTING SPECIALISTS

July 22

This photo of NITRAGIN test plots at a University Experiment Station, taken July 22, shows heavier growth and darker color due to good inoculation. Weeds are gaining rapidly on the thin, less vigorous stand of uninoculated soybeans.



35 days later

By September 1, weeds had completely smothered the nitrogenhungry crop that was not inoculated. NITRAGIN that cost 12c an acre made this difference.

On fertile land, uninoculated legumes may look about as good as an inoculated crop—but remember, legumes without inoculating bacteria must get their nitrogen by robbing the soil; inoculated legumes get theirs from the air.



One Way to Help Farmers Produce for Victory

Sellmore NITRAGIN

Four-fifths of the air is nitrogen . . . vital element needed now to increase crop production. The one practical way to make this nitrogen available for plant growth is through legumes inoculated with effective strains of nitrogen-fixing bacteria. An acre of well-inoculated sweet clover, it is estimated, can gather as much nitrogen as is contained in 1,000 or more pounds of common mixed fertilizer.

This important ability of clover, alfalfa, peas, soybeans and other legumes depends on the presence of the *right* legume bacteria. That's why it is important that every planting of legumes be inoculated with NITRAGIN. NITRAGIN contains only selected, tested strains of bacteria produced in the largest, most complete laboratory of its kind in the world.



Your Protection!

The name NITRAGIN is a registered trade name. It identifies the oldest, most widely used brand of inoculation. When customers ask for NITRAGIN, be sure to supply them with NITRAGIN—do not confuse it with other inoculants.

THE NITRAGIN CO., INC.,

3830 N. Booth St.,

MILWAUKEE, WIS.

Dock, smooth (Rumex altissimus). Ia., Kan. (spp), Miss. (spp), Mo. (spp), N. Y. (spp), O. (spp), R. I. (spp),

Wash. (spp).

Dock, sour (Rumex acetosa). Ark., Kan. (spp), Miss. (spp), Mo. (spp), N. Y. (spp), O. (spp), R. I. (spp), Wash.

Dock, yellow (Rumex crispus). See

Dock, curly.
Dodder (Cuscuta spp). Ala., Ariz., Ark., Cal., Colo., Conn., Del., Fla., Ga., Ida., Ill., Ind., Ia., Kan., Ky., La., Me., Md., Ill., Ind., Ia., Kan., Ky., La., Me., Md., Mass., Mich., Minn., Miss., Mo., Mont., Neb., Nev., N. J., N. M., N. Y., N. C., N. Dak. (except coryli), O., Okla., Ore., Pa., R. I., S. C., S. Dak. (except coryli), Tenn., Tex., U., Vt., Va., Wash., W. Va., Wis.

Dogbane (Apocynum cannabinum). Cal. Dogbane, spreading (Apocynum androsaemifolium.). Wyo.

 \mathbf{E} English plantain (Plantago lanceolata). See Buckhorn.

English charlock (Brassica arvensis). See Mustard, wild.

Ergot (Claviceps spp). Vt.

False flax (Camelina sativa). Me. False flax, small-seeded (Camelina microcarpa). Me.

Fanweed (Thlaspi arvense). See Pennycress, field.

Fieldcress, Austrian (Rorippa austriaca, Radicula austriaca). Cal., Minn., Nev., Ore., Wash., Wyo. Field madder (Sherardia arvensis). Ore.

Field pennycress (Thlaspi arvense). See Pennycress, field.

Field peppergrass (Lepidium campestre). See Peppergrass, field.

Fireweed (Erechtites prenanthoides). See Burnweed, Australian.

Five-hook Bassia (Bassia hyssopifolia).

See Bassia, five-hook.

Fleabane, daisy (Erigeron ramosus, E. strigosus) White top. Me.

Flowering spurge (Euphorbia corollata). See Spurge, flowering.

Foxtail, water (Alopecurus geniculatus). La.

Franseria povertyweed (Franseria te-nuifolia). See Povertyweed, franseria. Franseria, whiteleaved (Franseria discolor). See Povertyweed, silverleaf.

Frenchweed (Thlaspi arvense). See Pennycress, field.

G

Galinsoga (Ginsoga parviflora). W. Va. Garlic, wild (Allium vineale). See Onion, wild.

Gaura, scarlet (Gaura coccinea). Cal. Gaura, wavy-leaved (Gaura sinuata). Cal.

Globe podded ball cress (Hymenophysa pubescens). See Hoary cress. Goat weed (Hypericum perforatum).

See St. Johnswort.

Great burdock (Arctium lappa). See Burdock, great.

Great ragweed (Ambrosia trifida). Sce Ragweed, great.

Groundcherry, perennial (Physalis sub-glabrata). Ida., Wash.

Groundcherry, perennial (Physalis longifolia). U.

Groundcherry (Physalis Heterophylla) Nightshade. U.

Hare's-ear-mustard (Conringia orientalis). Me.

Hawkweed, orange (Hieracium aurantiacum) Devil's paintbrush. Conn. (spp), Del., Me., Miss., Pa., Va. (spp), W. Va. (spp).

Hedge bindweed (Convolvulus sepium).

See Bindweed, hedge.

Hemlock, poison (Conium maculatum). See Poison hemlock.

Hemlock, water (Cicuta maculata). U. Hoary alyssum (Berteroa incana). Mich.

Hoary cress (Lepidium draba, L. repens) Perennial peppergrass, White top. Ariz., Cal., Ida., Ill., Ia., Kan., Minn., Mont., Neb., Nev., N. Dak., Ore., S. Dak., U., Wash., Wyo.

Hoary cress (Hymenophysa pubescens) Ball cress, Globe podded ball cress, White top. Ariz., Cal., Ida., Mont., Nev., N. Dak., Ore., Wash.

Hop clover (Trifolium procumbens). Ĉolo.

Horsenettle (Solanum carolinense) Bull nettle. Ariz. Cal., Ill., Ind., Ia., Kan., Minn., Nev., N. J., Okla., Pa., S. D.,

Horsenettle, white (Solanum elaeagnifolium). Ariz., Cal., Nev.

Iberian star-thistle (Centaurea iberica). See Star-thistle, Iberian. Indian mustard (Brassica juncea). See

Mustard, Indian.

Ivy leaved morning-glory (Ipomoea hederacea). See Morning-glory, ivy leaved.

Italian thistle (Carduus pycnocepha-lus). See Thistle, Italian.

Johnson grass (Sorghum halepense). Ala., Ariz., Ark., Cal., Fla., Ga., Ill., Ind., Kan., Ky., La., Md., Miss., Mo., N. C., Okla., Ore., S. C., Tenn., Tex, Va., W. Va.

King devil weed (Hieracium pratense). Conn. (spp), Me., Miss. (spp), Pa. (spp), Va. (spp), W. Va. (spp).
Klamath-weed (Hypericum perforatum). See St. Johnsworth.

Knapweed, Russian (Centurea picris, C. repens). Ariz., Cal., Ida., Ill., Ia., Mont., Neb., Nev., N. J., N. Dak., Ore., S. Dak., U., Wash., Wyo.

Lanceleaved sage (Salvia lanceolata). See Sage, lanceleaved.

Large dock (Rumex obtusifolius). See Dock, bitter.

Larkspur (Delphinium menziesii, D. cuculatum). U.

Leafy spurge (Euphorbia esula). See Spurge, leafy.

Lettuce, blue flowering (Lactuca pulchella). Mont., Ore., U., Wash.

Madder, field (Sherardia arvensis). See

Field madder. Mallow, alkali (Sida hederacea). Ariz.,

Cal., Ore., Wash. Malta star thistle (Centaurea melitensis). See Star thistle, Malta.

Milkweed, poison (Asclepias galioides). See Poison milkweed.

Milkweed, whorled (Asclepias galio-ides). See Poison Milkweed.

Morning-glory, Wild (Convolvulus arvensis). See Bindweed, field.

Morning-glory (Ipomoea purpurea). Ark., Kan. (spp).

Ark., Kan. (spp).

Morning-glory, ivy leaved (Ipomoea hederacea). Kan. (spp), S. Dak.

Mustard, ball (Neslia paniculata). Me.

Mustard, black (Brassica nigra). Ariz.,
Colo. (spp), Conn. (spp), Ga. (spp),
Ida. (spp), Ill. (spp), Ia. (spp), Kan.
(spp), Me., Mass. (spp), Mich. (spp),
N. M., N. Y. (spp), R. I. (spp), S. C.,
S. Dak., Vt. (spp), Wash. (spp).

Mustard, Indian (Brassica juncea).
Ariz., Colo. (spp), Conn. (spp), Ga.
(spp), Ida. (spp), Ill. (spp), Ia. (spp),

Va., Wis.

Mustard, tumble (Sisymbrium altissi-

mum). Ariz., Me. Mustard, wild (Brassica arvensis, B. ka-Charlock, English charlock. ber). Charlock, English charlock.
Ariz., Colo. (spp), Conn., Del., Ga.
(spp), Ida. (spp), Ill. (spp), Ind., Ia.
(spp), Kan. (spp), La., Me., Mass.
(spp), Mich. (spp), Mont., Neb., Nev.,
N. M., N. Y. (spp), Okla., R. I., S. C.,
S. Dak., Tex., Vt. (spp), Wash. (spp),
W. Va., Wis.

Night-flowering catchfly (Silene nocti-flora). See Catchfly, night-flowering. Nightshade (Physalis heterophylla).

See Groundcherry. Nightshade, black (Solanum nigrum).

Nightshade, perennial black (Solanum douglasii). Cal.

Nightshade, purple (Solanum elaeagnifolium). Tex. folium). Tex. Nutgrass (Cyperus esculentus). Ariz.,

Cal. (spp), Fla. (spp), Miss. Sutgrass (Cyperus rotundus), Coco grass. Ala., Ariz., Ark., Cal. (spp), Fla. (spp), Ga., La., Miss., Okla., S. C., Nutgrass Wvo.

Oats, wild (Avena fatua). Ariz., Colo., Del., Ida., Kan., Me., Mont., Neb., N. M., Okla., S. C., S. Dak., Tex.

Onion, wild (Allium vineale, A. canadense). Wild garlic. Ala., Ark. (spp), Fla., Ga., Ill. (spp), Ind., Kan. (spp), Ky., Md., Miss., Mo., N. C., O., Okla., Ore., Pa. (spp), S. C. (spp), Tenn., Va., W. Va., D. C.

Orange hawkweed (Hieracium aurantiacum). See Hawkweed, orange.

Oxeye daisy (Chrysanthemum leucan-themum). Ill., Ind., Kan., Ky., Me., Minn., Mo., O., Ore., Tenn., W. Va., Wis., Wyo. Oxeye daisy (Rudbeckia hirta). See

Black-eye Susan.

Peaweed, Austrian (Swainsona salsula).

See Austrian peaweed.

Pennycress, field (Thlaspi arvense). Frenchweed, Fanweed, Ida., Kan., Me., Mont., Nev., N. M., S. Dak., Wash. Pepper cress, perennial (Lepidum latifolium). Cal., Wash.

Peppergrass, field (Lepidium campes-

tre). Ind. Peppergrass, perennial (Lepidium dra-

ba, L. repens). See Hoarv cress Peppergrass, perennial (Lepidium latifolium). See Peppercress, perennial. Perennial black nightshade (Solanum

douglasii). See Nightshade, perennial black. Perennial groundcherry (Physalis lon-

See Groundcherry, perengifolia). nial.

Perennial ragweed (Ambrosia Psilostachya). See Ragweed, Western. Perennial sowthistle (Sonchus arven-

sis). See Sowthistle, perennial.

Pigweed, rough (Amaranthus retroflexus). See Rough pigweed.

Plantain. black seeded (Plantago rugelii). Colo. (spp), Conn. (spp), Ga. (spp), Ind., Miss. (spp), Mo. (spp), O. (spp), Wash. (spp).

Plantain, bottlebush (Plantago aristata).

See Plantain, bracted.

Plantain, bracted (*Plantago aristata*). Bottle bush plantain. Ala. (spp), Ark., Colo. (spp), Conn. (spp), Ga. (spp), Ind., Miss. (spp), Mo. (spp), O. (spp), Okla., Wash. (spp).

Plantain, buckhorn (Plantago lanceo-lata). See Buckhorn, plantain.

Plantain, common (Plantago major). Rippleseed Plantain. Colo. (spp), Conn. (spp), Ga. (spp), Ind., Miss. (spp), Mo. (spp), O. (spp), Ore., Wash. (spp).

Poison hemlock (Conium maculatum).

Poison milkweed (Asclepias galioides). Whorled milkweed. Ariz., Ŭ. Povertyweed (Iva axillaris). Deathweed, Sumpweed. Ariz., Cal., Colo.

(spp), Ore. U., Wash.

Franseria. Povertyweed, (Franseria tenuifolia). Ariz., Cal., Colo.

Povertyweed, silverleaf (Franseria discolor). Whiteleaved Franseria. Ariz., Colo., Wyo.
Prickly sowthistle (Sonchus asper). See

Sowthistle, prickly.

Puncture-vine (Tribulus terrestris). Ariz., Cal., Ida., Neb., Nev., Ore., U. Purple nightshade (Solanum elaeagnifolium). See Nightshade, purple.

Purple star thistle (Centaurea calcitrapa). See Star thistle, purple.

Quackgrass (Agropyron repens). Witchgrass. Ala., Cal., Conn., Del., Fla., Ga., Ida., Ill., Ind., Ia., Kan., Ky., Me., Md., Mass, Mich., Minn., Mo., Mont., Neb., N. J., N. M., N. Y., N. Dak., O., Ore., Pa., R. I., S. Dak., Tenn., U., Vt., Va., Wash., W. Va., Wis., Wyo., D. C.

Radish, wild (Raphanus raphanistrum).

Ragweed, common (Ambrosia artemisiifolia). Me.

Ragweed, great (Ambrosia trifida). Me. Ragweed, perennial (Ambrosia psilos-tachya). See Ragweed, western. Ragweed, western (Ambrosia psilos-tachya). Perennial ragweed. Ariz.,

Cal., Me., U., Wyo. Ragweed, white (Franseria discolor).

See Povertyweed, silverleaf.

Red rice (Oryza sativa). Ark., Cal. Red sorrel (Rumex acetosella). See Sheep sorrel. Ribgrass (Plantago lanceolata).

Buckhorn.

Rippleseed plantain (Plantago major). See Plantain, common.
Rough pigweed (Amaranthus retroflex-

us). Ga.

Rutabaga (Brassica campestris). Me. Russian Knapweed (Centurea picris, C. repens). See Knapweed, Russian. Russian thistle (Salsola kali). Ariz.,

Cal., Mo., Okla., Tex.

Sage, lanceleaved (Salvia lanceolata).

Wyo. Sandbur (Cenchruz pauciflorus). Bur grass. (Ariz., Cal., Ga., Nev., S. C.

Scabious, sweet (Erigeron annuus). See Sweet scabious.

Scarlet Gaura (Gaura coccinea). See Gaura, scarlet.

Sheep sorrel (Rumex acetosella). Red sorrel. Ala., Ark., Ind., Ia., Kan., Ky. (spp), Miss. (spp), Mo., O., Okla., R. I. (spp), Wash. (spp).

Silverleaf povertyweed (Franseria discolor). See Povertyweed, silverleaf. Smaller burdock (Arctium minus). See

Burdock, smaller.

Small-seeded false flax (Camelina microcarpa). See False flax, small-seed-

Sorrel, red and sheep (Rumex acetosella). See Sheep sorrel.

Sowthistle, common (Sonchus oleraceus). La. (spp), Me., W. Va. (spp). Sowthistle, perennial (Sonchus arvensis). Field sowthistle. Ariz., Cal., Colo., Ida., Ill., Ind., Ia., La. (spp), Me., Mich., Minn., Mont., Nev., N. Dak., Okla., Ore., Pa., S. Dak., U., Wash., W. Va. (spp), Wis., Wyo.

Sowthistle, prickly (Sonchus asper).

Spinyleaved sowthistle. La. (spp), Me., W. Va. (spp).

Sowthistle, spinyleaved (Sonchus asper). See Sowthistle, prickly.

Spotted cats-ear (Hypochaeris radi-cata). See Cats-ear, spotted. Spreading dogbane (Apocynum andro-

saemifolium(. See Dogbane, spread-

Spurge, flowering (Euphorbia corol-lata). Ida. (spp), Wyo. Spurge, leafy (Euphorbia esula). Ariz.,

Cal., Ida. (spp), Ill., Ia., Minn., Mont., Neb., Nev., N. Dak., Ore., S. Dak., U., Wash., Wis., Wyo.
Squirrel-tail grass (Hordeum jubatum).

See Barley wild. Star-thistle, Iberian (Centaurea iberica). Cal., Nev., Ore.

Star-thistle, Malta (Centaurea melitensis). Ore. Star-thistle, purple (Centaurea calci-

trapa). Cal., Nev.

Star-thistle, yellow (Centaurea solsti-tialis). Cal., Nev., Ore., W. Va. Stickseed (Lappula echinata). Blue bur.

Me St. Johnswort (Hypericum perforatum). Goatweed, Klamath-weed. Cal., Nev.,

Ore., Wash., Wyo. Sumpweed (Iva axillaris). See Pover-

tyweed. Sweet scabious (Erigeron annus). Me.

Tansy Mustard (Sisymbrium irio, S. sophia). See Mustard, tansy.

Texas blueweed (Helianthus ciliaris). See Blueweed, Texas.

Tie-vine (Convolvulus arvensis). See Bindweed, field.

Thistle, bull (Cirsium lanceolatum). See Bull thistle.

Thistle, Canada (Cirsium arvense). See Canada thistle.

Thistle, Italian (Carduus pycnocepha-lus). Cal.

Thistle, Russian (Salsola Kali). See Russian thistle.

Toadflax, yellow (Linaria vulgaris). Ida., Ore., Wash.

Tumble mustard (Sisymbrium altissimum). See Mustard, tumble.

Waterhemlock (Cicuta maculata). U. Wavy-leaved Gaura (Gaura sinuata). See Gaura, wavy-leaved.

Western ragweed (Ambrosia psilostachya). See Ragweed, western. Whorled milkweed (Asclepias

ides). See Poison milkweed. White campion (Lychnis alba). See

Campion, white. White horsenettle (Solanum elaeagni-

folium). See Horsenettle, white. Whiteleaved Franseria (Franseria discolor). See Povertyweed, silverleaf. White top (Hymenophysa pubescens).

See Hoary cress. White top (lepidium draba, L. repens).

See Hoary cress.
Wild Barley (Hordeum jubatum). See

Barley, wild. Wild buckwheat (Polygonum convolvu-

lus). See Buckwheat, wild. Wild carrot (Daucus carota). See Carrot, wild.

Wild Chicory (Cirhorium intybus). See Chicory, wild.

Wild Garlic (Allium vineale). See Onion, wild.

Wild morning-glory (Convolvulus arvensis). See Bindweed, field. Wild morning-glory (Convolvulus sepi-

um). See Bindweed, hedge. Wild oats (Avena fatua). See Oats, wild.

Wild onion (Allium vineale). See Onion, wild. Wild mustard (Brassica arvensis). See

Mustard, wild.
Wild radish (Raphanus raphanistrum).

See Radish, wild. Wintercress, bitter (Campe barbarea).

Ind. Wire grass (Cynodon dactylon and ca-

priola dactylon). See Burmuda grass. Wire grass (Paspalum distichum). Tex. Witchgrass (Agropyron repens). See Quackgrass.

Yarrow (Achillea millefolium). Ore. Yellow cress (Rorippa sylvestris). Wyo. Yellow dock (Rumex crispus). See

Dock, curly. Yellow toadflax (Linaria vulgaris). See

Toadflax yellow.

Yellow star-thistle (Centaurea solsti-tialis). See Star-thistle, yellow.

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NUTRIENT	BEST SOURCES OF NUT	RIENTS	SOME CONDITIONS* WHICH HAVE BEEN CAUSED BY LACK OF NUTRIENT			
1101111111	Plant Sources	Animal Sources	OR CURED BY FEEDING NUTRIENT			
Vitamin A	Wild greens Escarole Leaf lettuce Spinach Green cabbage Collards Sweet potatoes Tomatoes Mustard, turnip, Squash and beet leaves Kale	Liver Egg yolk Butter Cream Milk, whole	Night blindness, sensitivity of eyes to bright light. Dryness and scaliness of skin. "Goose-pimple" skin, ingrown hair.			
Thiamin (vitamin B ₁)	Whole-grain products—bread, flour, cereals Bran Wheat germ Beans—soy, navy, and lima Peas	Pork, lean Liver Kidney Heart Muscle meats Fish Eggs Milk	Poor appetite, constipation. Tiredness, low capacity to do work. Neuralgia, tingling in feet and hands; nervousness. Some types of heart trouble. Dropsy, sleeplessness, delirium tremens.			
Riboflavin	(None comparable to animal sources)	Milk Liver Kidney Heart Muscle meats Eggs	Eyes that burn, itch, tire easily or are sensitive to bright light; pink tinge surrounding iris. Blackheads and "whiteheads," oily skin, tiny blood vessels visible on face. Sore lips with cracks at corners. Purplish color of tongue. Decreased resistance to infections.			
Nicotinic acid	Spinach Kale Collards Leaf lettuce Green cabbage	Liver Kidney Muscle meats Fish Milk Eggs				
Pyridoxin (vitamin B ₆)	Whole-grain products—bread, flour, cereals Bran Wheat germ Beans and peas	Muscle meats Fish	Some types of shaking palsy, rigidity of muscles, lack of facial expression. Sleeplessness, nervousness, poor appetite Weakness.			
Ascorbic acid (vitamin C)	Oranges Grapefruit Strawberries Tomatoes Sprouted beans Raw vegetables Potatoes, white	(None compa- rable to plant sources)	Tiredness, decreased capacity to do work laziness, skin hemorrhages, spongy bleeding gums. Poor healing of cuts and wounds. Serious after-effects of disease.			
Tocopherol (vitamin E)	Oils from seeds, corn, cottonseed Green leafy vegetables Whole-grain products Beans and peas	Egg yolk	Muscle weakness, some types of muscle paralysis. Sterility.			
Vitamin K	Spinach Kale Collards Green cabbage Tomatoes	(None compa- rable to plant sources)	Slow clotting of blood, particularly in first ten days of life and in obstructive jaundice. Excessive loss of blood at childbirth. Hemorrhages following operations.			
Unsaturated fatty acids	Oils from seeds	Lard Liver Fat pork Egg yolk	Eczema. Scaliness of skin.			
Protein	Dried peas and beans, particularly soybeans Corn, wheat, and oat products	Milk Cheese Eggs Liver Kidney Muscle meats	Tiredness, general weakness, laziness, anemia, dropsy. Serious after-effects of disease.			
Calcium	(None comparable to milk or cheese)	Milk and cheese	Poorly calcified bones and teeth.			
Iron	Whole-grain products Bran Green leafy vegetables	Liver Eggs Muscle meats	Tiredness, general weakness, laziness. Anemia. Slow progress in school and mental dullness.			

^{*} Many of these conditions can be caused by other means than faulty food habits.

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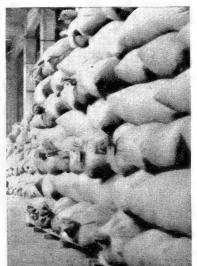
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AVERAGE SERVINGS PROTEIN "VEGETABLES

PEAS-Split, Dried BEANS—Soy, Dried

BEANS-Navy, Dried

BEANS-Lima, Dried

CORN-Dried PEAS-Fresh

This and following charts prepared and copyrighted by Philadelphia Child Health

CORN-Fresh

KALE

POTATO-White

%-1 cup cooked . %-1 cup cooked . %-1 cup cooked . %-1 cup cooked . %:-1 cup cooked
%:-1 cup cooked
%:-2 cup cooked
%:-1 cup cooked
%:-1 cup cooked
%:-2 cup cooked
%:-2 cup cooked
1 car
1 cup cooked
1 medium
% cup cooked
1 medium
% cup cooked %-1 cup cooked ... %3-1 cup cooked ... %3-1 cup cooked Beans, mung, dried Lentils, dried, split Peas, dried, whole Beans, navy, pinto, red kid-ney or pea beans Beans, ilma, dried Beans, ilma, dried Beans, soy, dried.
Beans, soy, fresh
Lentils, dried, whole.
Peas, dried, split Vegetable Peas, fresh Corn, dried

% cup diced 2-3 small cup cooked Potato, white Turnip greens, fresh Potato, sweet Beans, snap or string, fresh Lambsquarters Collards

SNDED DAILY ALLOWANCES FOR PROTEIN
National Research Council, May, 1941
ults 60-70 grams
egnancy 85 grams
100 grams
100 grams 2 cup cubed I medium Turnips, white
Tomato, fresh of canned

*Actional Researc regnancy

Onions, mature

Dry weight before cooking.

**Thee figures are for fresh, raw or dried vegetables before cooking. To retain all the protein in fresh vegetables, avoid soaking in water before cooking. If boiled in water, use all the cooking water.

To retain all the protein in dried vegerables, wash thoroughly in several waters before soaking. Soak for several hours or

overnight in water and cook the vegetable in the same water in which it has soaked. This water contains soluble proteins as asked. But a from a vitamine. Composition of American Food Materials. Chatfield and Adams. June. 1940. United States Department of Agriculture.

AVERAGE SERVINGS VITAMIN C IN VEGETABLES

TURNIP-White MUSTARD GREENS CABBAGE

TOMATO-Red

ONIONS-Green, Young

WATER CRESS RADISHES

LETTUCE

CUCUMBER

Vegetable

Grams of Protein ** 17.5 12.5 12.3 12.0 11.9

Milligrams of Ascorbio Acid **

Figures Figures Used 63 63 45-175 25-50 25-55 25-55 21-24 23 21-24 23 | 1/2 cup chopped | 1/2 cup chopped | 1/2 cup chopped | 1/2 cup chopped | 1/2 large | 1/2 large | 1/2 cup chopped | 1/2 sup chopped | 1/2 ‡ Cabbage, head or leaf Turnip, white Potato, white, cooked, Onions, green, young. Onions, mature Mustard greens Sprouts, bean, mung. Pepper, green Fomato, red

Rutabaga Cabbage, Chinese Turnip greens ...

κ 4 κ α

Onions, garantee

Onions, mature

Vater crees

Radishes, red
Carrot
Carrot
2-3 large leaves
Celery
Romaine
3 large leaves or 6 small
30 1.8-6.3
Lettuce, green or iceberg 3 large leaves or 6 small
Cucumber
8 slices, peeled
50 1.8-6.3
Sauerkraut
RECOMMENDED DALLY ALLOWANCES FOR ASCORBIC ACID
National Research Council, May, 1941
Adults
Adults
150 milligrams
160 milligrams
30-100 milligrams

Sauerkraut
30-100 milligrams
Adults
20% to

Lactation

After deducting 50% loss for cooking.

* The size of serving is one which many people could enjoy if the vegetable were eaten raw, the best way to retain ascorbic acid in vegetables. Therefore potatoes, which are a grood source of vifamin C even after cooking losses, are the only vegetable listed in cooked form.

* Ascorbic acid is more seriously affected by temperature, oxidation, solubility, the presence of alkalies and storage than the presence of alkalies and storage than the other known vitamins. Thin, leady, raw vegetables as spirach may lose 50% of their vitamin C content after standing two or three days. August rapid loss. Serve immediately, if possible, after chopping or shredding.

Cooking destroys about 20% to 25% of ascopic accopic acid. It also renders about 30%, to ascopic acid. It also renders about 30%, to to the amount of water used. This can be saved if the cooking water is used. Cook foods quickly and serve immediately to retain maximum amounts of ascopic acid. It Green cabbage leaves outside of the head are much higher in minerals and vitamins than are the blanched leaves within the head. Consumers should be certain, however, that arsentical insecticides have not been applied to them in the course of their growth.

Data from Food Values of Portions Commonly, Used, Bowes and Church, 4th edition, 1942.

AVERAGE CALCIUM IN VEGETABLES

TURNIP GREENS

MUSTARD GREENS COLLARDS

ONIONS-Green, Young BROCCOLI

DANDELION CABBAGE CARROT

| 100 | 1. | 100 | 1. | 100 | 1. | 100 | 1. | 100 | 1. | 100 | 1. | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 y cup cooked
y cup cooped
y cup cooped
y cup cooped
y cup cooped
y cup cup cooped
y cup cup cooped
y cup cup cooped
y cup Cabbage, loose outer leaves.... Broccoli leaves furnip greens Vegetable Collards

calcium.

** These figures are for edible portion of fresh or dried vegetables before cooking. Allowances of 10% to 35% loss should be made if vegetables are allowed to soak or

stand in water or if cooked in water and the cooking water is discarded.

‡ Green cabbage leaves outside of the head are much higher in minerals and vitamins than are the bianched leaves within the head. Consumers should be certain, however, that arsenical insecticides have not been applied to then in the course of their growth.

Data from Food Values of Portions Commonly Used, Bowes and Church, 4th edition, 1942.

AVERAGE PHOSPHORUS "VEGETABLES

PEAS-Fresh

BEANS-Dried

POTATO-White CORN-Fresh

BROCCOLI

KALE

MUSTARD GREENS

TURNIP GREENS

Vegetable

CELERY

Grams of Phosphorus

> 1/2 cup scant
> 1 medium ear
> 1 medium ear
> 1 medium ear
> 2 cup scant, cooked
> 2/2 cup cooked
> 1/2 cup scant
> 2-3 small, 1 large
> 1/2 cup cooked
> 1 large, 2, cup cubes
> 1/2 cup cooked
> 2/3 cup cooked
> 2 stalks, 4" long
> 5, 5/4" long, 1/2 diameter
> 5, 5/4" long, 1/2 diameter
> 5, stalks or hearts
> 2 stalks or hearts
> 2 large leaves
> 3 large leaves
> 3 large leaves
> 3 large leaves
> 3 large leaves %-1 cup cooked %-1 cup cooked %-1 cup cooked Amount Beans, dried
> Peas, dried
> Beans, dried, lima
> Corn, sweet, fresh

Potato, white Broccoli ‡ Cabbage, outer leaves.

Turnip greens
Spinach, fresh
Peas, canned
Onions, mature

Mustard greens ...

Asparagus Onions, young, green Celery, fresh, raw Dandelion greens
Carrot, fresh
Beets, fresh
Cabbage, headed

Bureau of Home Economics, U. S. Department of Agriculture, March, 1941 TENTATIVE DAILY ALLOWANCES FOR PHOSPHORUS Lettuce, iceberg Lettuce, leaf ...

Romaine

1.32 grams Children # Dry weight before cooking.

** These figures are for edible portion of fresh or dried vegtables before cooking. Allowances of 10% to 35% loss should be made if vegtables are allowed to soak or stand in water or if cooked in water and the cooking water is discarded at a forem cabbage leaves outside of the head are much higher in minerals and vitamins

than are the blanched leaves within the head. Consumers should be certain, however, that arsentical insecticides have not been applied to them in the course of their growth.

Data from Food Values of Portions Commonly Used, Bowes and Church. 4th edition 1942.

VITAMIN A IN VEGETABLES SERVINGS

TURNIP GREENS **MUSTARD GREENS** BEET GREENS DANDELION ESCAROLE CARROT

ONIONS-Green, Young

BEANS-String or Snap

,	Wt. in	International Units **	inite
Vegetable	Amount Grams	Figures	Figur
		Reported	Used
	eup cooked100	10,000-25,000	
Beet greens	cooked100	16.100	16.16
enb	eooked100.	15,000	1
enb	cooked	10.500-20.000	10
½ cnb	cooked100	10.000-15.700	6.
2		9.000-12.000	
×,4		10,200	0.5
, ?! -?!		10.000	
ė		0000	E I
7/2	cup cooked 100	3.000. 9.000	
	large	2.100-10.000	8 0.
0	01	3.000	
\Q	cup cooked 100	2.000-6.000	
72	cup cooked 100	2.000-4.000	
ĸô	- 6	1.800	200
·		000	
5/ ₄		1.000-1 300	
T	empty shell	000 H 255	
1/2	cup cooked 100	600-1 800	1 90
ry,			1
0110	. 10 small leaves 25.	963	
	medium100	550-1.150	
10 W 1	medium ear100.	200	
, ca	cup cooked100	200-400	
:	10 average sprigs 10.	80-300	
:		100	
	leaves 30	08	

RECOMNE DED DAILY ALLOWANCES FOR VITAMIN A

Adults Adults Council, May, 1941

Lactation S.000 I. U.

Children S.000 I. U.

Children S.000 I. U.

A does not occur in plants. The tables. Vitamin A is not soluble in water. Boiling, steaming or canning of vegetables causes little loss of vitamin A. Freezing risors only beta-carotene yields months if the product is held at a very low three precursors has only

Pregnancy

Lactation

Children

Children

vitamin A does not occur in plants. The orange yellow substances called carolendist from precursors of vitamin A. Of the four known precursors only beta-carotene yelds approximately its own weight of vitamin A. Bach of the other three precursors has only one half as much vitamin A value as has beta-carotene.

** These figures are for fresh, raw vege-

Data from Food Values of Portions Commonly Used, Bowes and Church, 4th edition, 1942.

AVERAGE SERVINGS VITAMIN B2 IN VEGETABLES

TURNIP GREENS BEANS-Lima, Dried **MUSTARD GREENS** BEET GREENS PEAS-Fresh SPINACH KALE

TURNIP-White

TOMATO-Red

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ams o	Fig	ĭ	1-		10	00	è	e e e					Š	i												- 1	•	
Micrograms of Riboflavin **	Figures	Reported	750	625	400-600	383	375	300-400	550	250	100 100 100	200-500	000-006	007-007	061-071	130	120 - 150	95	65-150	65-135	60.120	60-120	1.	i i	50-100	00 26	00-10	10-07
		-						:	:										:									
Wt. in Grams			100	100	100	50		100		9	100	100	100	47.0				156	100	100		50	50	30	9			
≥ 5		1		I		**	T		T		T		-	*	4				1		:	Г.	:			10	-	+ + -
			:		: : : :											:		:		:	arge		medium, 8 slices, peeled.	large leaves or 6 small				
nt				:		oked,	- Pa		: : :		ed	ed	ed	beed	5			Day		0 Ked		medium	s slice	ves or				3 large leaves
Amount		on and	2000	cap cooked	cup cooked	oo da	payoos dns	cooked	Cooked	COOKEG	cooked	enb cooked	enp cooked	cup cooked	tablesnoons	modina	THE STATE	100 41	600 K	3-73 cub cooked	: :		nam.	re lea	eup diced	medium	nail	re lear
		17. 0000		7.	7. ?:	2 - 1 - C	T .	dno a	dno %	dno et	dno %	% cap	Z cap	%-1 e	4 191	T TOTAL	271 one occlusion	5 7 5	S cub cooked	ξ, ξ,	IBL	T me	2 me	3 larg	s cup	I med	2-3 smail	3 larg
				:		:	:	:	:	:	:	:		:						:	:	:			ر د د		:	
<u>و</u>		3			1000	naran		£	Lesin		cens	:					:								: : :	resh.	е	ğί.
Vegetable		S. Freeze	2	. 61133	Limon	d crao	9 n	limit of			15 HO!	:	resh.	ried .	Wer	SWAD	dried	Ctrino	a de la composición dela composición de la composición dela composición de la compos	c) near	and he had	,	L. IL	S. C.	, whit	rea, 1	matai	leebe
		Turnin greens	toot or	Kala	Rooms limb duice	Inetar	Kningoh	Spinach	Colleged	Non-della	Dametton greens	Broceon	Fens, fresh	Peas, dried	Cauliflower	Potato, sweet	entils, dried	Reans string	Johnson honded	Samuel Contract	Pototo arbito	Thomas how freeze	of the sale	Lettuce, green	larnips, white	lomato, red. fresh	Julons, mature	Lettuce, iceberg
		_	- 1	4 12	ı F	()	4 0	Ω		9	16	96	-	-	Ü	2	-	Œ	Ċ	٥٤	9	ζ	-	Ì	Ę	- (5,	7

RECOMMENDED BARRE leaves 30 12
RECOMMENDED BALLY DIETARY ALLOWAGES OF RIBOFLAVIN
Adults National Research Council, May, 1941
Pregrancy 1.800-3300 micrograms (1.8.3. mg.)
Lactation 3.000 micrograms (2.5.mg.)
Children 600-3.000 micrograms (3.0 mg.) ## Dry weight before cooking ## Dry weight before cooking ## These figures are for the edible portion of fresh or dired vegetables before cooking. Soaking fresh or dired vegetables before cooking. Soaking fresh vegetables in water and cooking in many seed on the soluble in water and cooking the stranger on vitamin Br. The cooking water should be saved and used. In preparing dried vegetables, wash thoroughly in several waters before soaking.

Soak overnight. Cook in the same water in which the vegetable has soaked to prevent loss through solubility. Canning and storage do not seem to reduce riboflavin to any marked extent.

Data from Food Values of Portions Commonly Used, Bowes and Church, 4th edition, 1942.

Burpee's Famous Seed Farms

Burpee's Seeds

For sixty-six years, seedsmen and dealers have been selling Burpee's seeds. In the coast-to-coast seed-production operations of the W. Atlee Burpee Co. using many thousands of acres, no expense is spared in carefully growing and testing the best varieties of both flowers and vegetables to maintain the highest quality, uniformity and germination for the entire satisfaction of you and your customers—whether you buy in bulk, or packaged under the Burpee brand to take advantage of the extensive national advertising and publicity that has made the Burpee name a household word among the gardeners of America.

This is Allison Condit, one of our California vegetable experts, examining the vegetable trials on table experts, examining the vegetables and flow-Floradale Farms. All kinds of vegetables and flowers are tested at both Fordhook and Floradale.

Our vegetable experts. Condit and Pride are constalled

Our vegetable experts, Condit and Pride, are carefully examining and making notes of the table beet trials on Burpee's Floradale Farms in California.

Burpee's Fordhook Farms in Pennsylvania are the most famous seed-breeding and testing farms in the world; they were founded by W. Atlee Burpee before the U. S. Government had any experiment stations. Many leading vegetables bear the name of Burpee or Fordhook.

Because of the tremendous demand we urge you to cover on all requirements as early as possible!

Tall giant larkspur growing for seed in Floradale Seed Farms. Floradale still produces the finest flower seeds, though much of the acreage is now devoted to vegetables.

The Burpee Buildings in Philadelphia, where warehouses, packaging and order-filling departments are located, convenient to both rail and water transportation facilities. Carload shipments are loaded on the private siding.



All kinds of flowers that grow from seed are tested each

year for both germination and purity. The above picture shows only a small section of the Fordhook trials.

Many years ago we were convinced that Germany planned another war for world conquest. To do our part we started in to train women to raise vegetable seeds on Floradale. These women are harvesting leek seed.

If you do not already have Burpee's Red List— Wholesale Prices for Seedsmen and Dealers we invite you to send for your copy now.

For the most dependable stocks of all leading flowers and vegetables, also the unusual—send your want-lists to Burpee for a sure source of supply.



W. Atlee Burpee Co.

Seed Growers

Telephone: Sagamore 8800 Direct Wires: Western Union and Postal Tel. Cable Address: Burpee, Philadelphia Executive Offices, Wholesale and Export Headquarters
PHILADELPHIA, Pennsylvania U.S.A.

VITAMIN B1 IN VEGETABLES SERVINGS

BEANS — Soy, Fresh BEANS-Lima, Fresh PEAS-Fresh

BEANS—Navy, Dried POTATO-White PEAS-Dried

TURNIP GREENS

TOMATO-Red CABBAGE

Micrograms of Thiamin ** Figures Reported 600 525 270-495 250-350 225-300 Wt. in Grams %-1 cup cooked %3-% cup cooked ½ cup cooked %-1 cup cooked Amount Beans, soy, dried Beans, soy, fresh Peas, fresh Vegetable

73-1 cup cooked 73-1 cup cooked 72 cup cooked 15 cup cooked 1 medium 1/2 cup cooked I medium Beans, lima, fresh
Beans, lima, dried
Beans, dried, navy, kidney, pinto and others.
Peas, dried Dandelion greens Potato, white Turnip greens Potato, sweet

200-300 150-310 150-310 150-250 1138-248 1138-180 120-190 120-190

The cup cooked
The state of the cup cooked
The cup cooked 1/2 cup cooked
1 medium % cup diced ... 3 large leaves Small ttuce, green or iceberg. Farsnip Corn, sweet, yellow Mustard greens Cabbage, headed Turnips, white ..

103 93

65-95 60-140 25-100

95-155 80-100

B, OR THIAMIN

fresh RECOMMENDED DAILY ALLOWANCES FOR

Celery,

Adults

Adults

Pregnancy
1,200-2,300 micrograms (1.2-.3 mg.)
Lactation
1,200-2,300 micrograms (1.2-.3 mg.)
Lactation
1,200-2,300 micrograms (1.2-.3 mg.)

**Thrams (2.3 mg.)

**Three figures are for edible portion of Thiamin is soluble in water. Soaking of Free in the original content of thiamin has been recable loss. In boiling vegetables, 50% of Freezing causes fittle or no looted in the cooking water. If this water poted in the cooking water causes extensive may be solved in the cooking water causes extensive may be solved in the cooking water causes extensive may be solved in the cooking water causes extensive may be solved in the cooking water causes extensive may be solved in the cooking water causes extensive may be solved in the cooking water causes extensive may be solved in the cooking water causes extensive may be solved in the cooking water causes extensive may be solved in the cooking water causes extensive may be solved in the cooking water causes extensive may be solved in the cooking water causes extensive may be solved in the cooking water causes extensive may be solved in the cooking water causes extensive may be solved in the cooking water causes extensive may be solved in the cooking water causes extensive may be solved in the cooking water in the solved water causes extensive may be solved in the cooking water in the solved water causes extensive may be solved in the cooking water in the solved water causes extensive may be solved water in the solved water in the cooking water in the solved water water

To retain thiamin in dried vegetables, wash thoroughly in several waters before soaking. Soak for several hours or overnight and cook in the same water.

Freezing causes little or no loss, Canning causes various losses.

Data from Food Values of Portions Commonly Used, Bowes and Church, 4th edition, 1942.

AVERAGE SERVINGS IRON IN VEGETABLES

一、此為國家等於於人名美罗斯典以前者會係以今日以前之	The second of th	教作為重大各立就可申以私之於此的華朝節	東京人 一年一年一十年十二年	一次 知道 一個	文章 中心を見るるが、などを	小都のよんで、後となって		
MUSTARD GREENS	BEANS-Dried	SPINACH	BEET GREENS	SWISS CHARD	DANDELION	KALE	POTATO-White	

BEANS -String or Snap

Mustard greens		Grams of Iron **
	up cooked	:
	%-I cup cooked	150
Spinach		.100
Beet greens	cup cooked	. 100
Swiss chard		.100
Dandelion greens		.100
Kale		.100
Cabbage, outer leaves	2 cup cooked	. 100
Potato, sweet	a cup cooked	. 100
	1 medium	.150
Broccoli	4 medium large	.150
Onions, young, green	S KIV LEADL, COOKED	.100
Reans, snap or string	2, 274 IONS	
Contract Con	o 1st familiary	=
	9-9 lamer leaves	50
. ~	*-o large leaves	. 50.
	1 Land, dieed	100
	1 large, % cup cubes	100
	o-4, o long	100
	stalks, 4" long	20
	:	50. 0.33
ettuce, icehere	a large leaves or 6 small.	30
BECOMMEND	s large leaves	
~ 6	2	IRON
Adults		
Pregnancy	IZ milligrams	
Lactation	To miligrams	
Children	SHIRING	

Green cabbase leaves outside of the head are much higher in minerals and vitamins than are the blanched leaves within the head. Consumers should be certain, however, that arsented insecticides have not been applied to them in the course of their growth.

Data from Food Values of Portions Commonly Used, Bowes and Church, 4th edition, 1942.

#Dry weight before cooking.

* These figures are for edible portion of fresh or dried vegetables before cooking. Allowances of 25% to 50% loss should be made if vegetables are allowed to soak or stand in water or if cooked in water and the cooking if Potatoes retain practically all their iron if cooked and eaten with the skin. If peeled thickly, practically all the iron is lost.

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A Digest of Little Known Crops

Compiled by S. H. YARNELL Chief, Texas Division of Horticulture



HERE has been an increasing interest in recent months in a miscellaneous group of plants -those for the most part whose import has been restricted, or substitutes for these. The herbs, spices and drug plants make up the bulk of the group, but inquiries have also been received in regard to fiber and oil plants, rubber crops and others. A good many of these are strictly tropical and for this reason unsuited to commercial production. Many of the herbs are well adapted to our conditions and might be grown commercially.

Three important limiting factors in the production of these crops are degree of adaptability, market demand, and availability of propagating material. Growing conditions vary considerably. Information in the last four columns should indicate the chance of success in any particular region. The column giving data on recent imports gives an idea of the crop's market importance. With a few exceptions, such as tung oil and guayule, the market demand for most of the crops that can be grown in this country could be satisfied with a relatively small acreage. This means that only the most favored localities should attempt such crops commercially. As the commercial production of many of them has heretofore been outside of this country, seed and other

propagating materials are usually very scarce or unavailable.

The scientific name and type of plant have been included to help identify the crop. These will be found useful in securing further information on any crop that may seem promising. The scientific name consists of two parts. In some cases, where the first part (genus name) is the same as the common name, its initial letter is used alone. The second part (species name) is always written out. The drugs are listed alphabetically by common name in Table 1. The herbs and spices, which are somewhat hard to distinguish are presented in Table 2. Table 3 includes many crops.



Table 1. Drug Crops

Common Name	Scientific Name	Imports (Pounds)*	Commercial Areas	Type Plant	Soils	Culture	Notes
Aconite	Aconitum napellus	10,000 to 12,000	Europe	Herbaceous perennial	Well drained gravelly loam	Seed or divisions	Cool climate. Not promising
Agar	(Marine algae)	451,399	East coast Asia	Sea weed		Collected and dried	Culture medium, laxative, etc.
Aloe	A. vera A. Perryi A. ferox	882,399	W. Indies, W. and S. Africa	Perennial	Well drained light soil; lime	Sun. Juice from leaves evaporated	A. vera grows wild in South Texas
Belladonna	Atropa Belladonna	207,694	Italy, Russia, S. Calif. 1918	Perennial to 3 feet	Deep, moist loam	Set plants 20"x30"	Temperature under 80° F. best
Buchu	Barosma betulina, other sp.	138,938	South Africa	Heath-like shrub	Dry gravelly	Mature wood cuttings	Native to hot dry mountains of S. Africa
Chamomile	Matricaria chamomilla	139,440	Eastern U. S.	Daisy-like annual	"Garden" soil	Wild in East	Flower heads con- tain an essential oi
Derris	D. elliptica D. trifoliata	226,598	East Indies Philippines	Climbing shrub			Tropical
Digitalis	D. ригригеа	50,200	Eu.; Pacific Northwest	Biennial	Well drained loam	Set plants 12"x36"	Red spider bad in Southwest. Not promising
Ephedrine	Ephedra sinica, others	1,948,011	China	Leafless shrub	Dry, sandy	Seed or suckers	Four species in W. Texas. Promising
Gentian	Gentiana lutea	351,806	Europe	Perennial	Well drained light loam	Seed in coldframe in fall	Not very promising Hard to transplant
Henbane	Hyoscyamus niger	102,529	Egypt, Russia, Calif. 1918	Annual or biennial	Deep moist loam	Set plants 15"x30"	Seed scarce in 1942. Potato beetle bad
Hoarhound	Marrubium vulgare	92,375	Europe	Herbaceous perennial	Sandy, fairly dry, sun	Divisions or seeds, 12"x18"	Widely naturalized
Hops	Humulus Lupulus	5,248,208	Northern U. S., England, Germany	Climbing herb	Loam	Cuttings and from seed	Wild in North and mts. south to Fla. and Arizona
Licorice	Glycyrrhiza glabra	59,731,292	Spain, Italy, Turkey	Perennial herb	Deep, moist, mellow, rich	Uncultivated after 1st yr.	Grow some in California
Mayapple	Podophyllum peltatum		Native to Texas	Herbaceous perennial	Deep, moist loam	Collected	Market limited. Drug from dried roots
Menthol	Mentha arvensis var. piperascens		Northern Japan and U.S.	Perennial	Rich, moist loam	Rootstocks, 2-3 crops yearly	
Nux vomica	Strychnos Nux-vomica	2,888,450	India, Australia	Tree			Tropical. Seeds con- tain strychnine
Orris	Iris florentina	486,208	S. Europe, Persia, India	Perennial	Rather dry, gravelly	Divisions, 12"x36"	Insects bad in storage
Psyllium	Plantago Psyllium	2,158,375	France, Spain	Annual to 8 inches	Loam	2 crops per year	Laxative, 18 species in Texas mostly weeds
Puccoon	Lithospernum officinale			Herbaceous perennial	Not particular	Divisions or seeds	Grows wild in Texas

*1935 or a recent average—crude drug.

Table 2. Herbs, Spices, Etc.

Common `Name	Scientific Name	Imports (Pounds)*	Commercial Areas	Type Plant	Soils	Culture	Notes
Allspice	Pimenta officinalis	4,127,822	W. Indies, S. America	Evergreen tree	Too common to cu	ltivate	Tropical
Ambrosia	Chenopodium Botrys	,		Annual to 2 feet	Loam	Seed. Not difficult	Jerusalem-Oak Feather Geranium
Angelica	A. archangelica			Biennial or perennial	Low ground	Seed in fall, plants in spring	Set plants 3x3 fee in full sun. Herb
Anise	Pimpinella Anisum	490,627	Europe, India, South America	Annual long season	Light to medium loam	Seed in field 6"x30"	Successful in Lower valley
Basil Sweet Bush	ocimum basilicum O. minum			Annual to 2 feet To 1 foot	Light, medium fertile, well drained	Set plants 12"x18", sun	Widely adapted An ornamental
Bergamot Bee Balm Horsemint	Monarda didyma M. fistulosa			Perennial	Any moist sandy soil	Seeds or divisions. 12"x18"	Herb. Leaves used in drinks
Borage	Borago officinalis			Annual to 2 feet	Light, "dry" med. fertility	Set plants 12"x15", sun	Herb. Leaves used in salad
Capsicum	C. annuum, other species	1,611,654	Eu., Asia, America	Annual	Widely adapted	Set plants 12"x30"	Includes the garden peppers
Caraway	Carum Carvi	6,168,202	Europe	Annual or biennial	Light, "dry" soil	Seed in spring	Second year. Fruit is used
Cassia	Cinnamomum Cassia, other species	10,093,196	India, East Indies, China	Evergreen tree	Moist, rich soil		Subtropical. Bark stripped from tree 6-10 years old

^{*1935} or a recent average—crude product.

Table 2. Herbs, Spices, Etc. (Continued)

		Table 2	Helps,	spices, ETC	. (Continue	a /	
Common Name	Scientific Name	Imports (Pounds)*	Commercial Areas	Type Plant	Soils	Culture	Notes
Catnip	Nepeta Cataria			Perennial to 3 fe	et Not particular	Seed 18"x24" sun	Herb. Sometimes used in tea
Chamomile	Anthemis noblis			Perennial to 8 inches	Any soil	Full sun	Dried flower heads used for tea
· Chervil	Anthriscus cerefolium			Annual to 2 feet	Light loam	Reseeds, 3"x18"-shade	Needs cool weather. Herb
Chives	Allium schoenoprasum			Perennial to 2 fee	Rich loam	Divisions in fall o	
Cinnamon Saigon C.	Cinnamomum zeylanicum C. Loureirii	850,356	E. and W. Indies Cochin China, S. America	Tree		Cut back twice a year	Tropical
Clary	Salvia Sclarea			Biennial to 4 feet	Well drained loan	Seed or cuttings,	Leaves used as seasoning
Clove	Eugenia aromatica	3,744,555	Zanzibar	Evergreen tree			Tropical. Unopened flower buds
Coriander	Coriandrum sativum	1,618,322	Europe, India, Morocco	Perennial to 3 fee	Good garden soil,	Seed, 6"x15" annual	Fruits are dried
Cudweed	Artemisia Purshiana			Perennial to 3 fee		Seed, full sun	For winter bouquets
Cumin	Cuminum cyminum	986,283	Southern Europe	Small annual	Well drained, med. fertile	Seed, 18"x36",	Seeds used in bread,
Dill	Anethum graveolens			Annual or longer	Sandy garden soil	Seed 9"x18", full	Seeds sometimes
Dittany	Dictamus albus			Perennial to 3 fee	Light loam	sun Full sun	shatter. Herb
Fennel Sweet	Foeniculum vulgare F. dulce	310,989	Widely cultivated	- mar province.	Not particular. Rich, moist	Annual, seed sun, 18"x24". 6"x12"	mental. Herb May become a pest in pastures
Fenugreek	Trigonella Foenum-graecum	511,732	Southern Europe, Asia	Annual Annual legume	Well drained loam	Seed in field	Grown for seeds, also forage; ornamental
Germander Small-leaved Large-leaved	Teucrium Chamaedrys T. flavum			Perennial to 1 foot to 2 feet	Light loam	Set plants, sun	An edging plant. Can be clipped
Ginger	Zingiber officinale	3,404,069	China, Japan, Jamaica	Perennial to 3 feet	Rich, moist soil,	Divide rhizomes	Tropical
Hoarhound	See Table 1				Shage		
Hyssop	Hyssopus officinalis			Perennial to 2 feet	Well drained, mod. fertile	Seed, this to 6"x18" shade	For soups. Herb
Lavender	Lavandula vera L. spica			Small shrub	Well drained, sandy	Seeds, divisions, cutting set 18"x36"	Harvest blooms 2nd, 3rd and 4th years. Distil with- out drying
Lemon Balm	Melissa officinalis			Herbaceous perennial	Well drained mod. fertile	Seeds, cuttings set 12"x18"	Cut in full flower, dry. Only flowers
Mace	Myristica fragrans	702,627 4,420,911	Tropics (nutmeg)	Evergreen tree to 60 feet	Moist, rich loam	Hot, moist climate	Tropical. Seed
Marjoram Sweet Dittany of Crete	Majorana hortensis Originum Dictamnus			Perennial to 2 feet Perennial to 1 foot	Well drained loam Light loam	Annual, seed 12"x18" sun Seed or Division in fall	For flavoring stews, etc.
Mint Peppermint Pennyroyal Spearmint Horsemint	Mentha piperita M. Pulegium M. Spicata M. sylvestris		Mich., Ind., New York	Perennial	Moist soils high in organic matter muck	Cuttings or divisions, keep free of weeds	Mow when in bloom, haul to distillery when dry. Fresh leaves used in drinks
Mustard White Black	Brassica hirta B. nigra	7,770,861 1,025,580	(seeds) Europe (ground m.)	Annual to 6 feet	Not particular	Seed in rows	Leaves used as greens, seed as condiment, oil
Pepper	Piper nigrum	33,085,593 4,748,307	(black) East (white) Indies	Climbing shrub	Not particular, moist	Seeds, cuttings pruned at 2', bears at 3 years	Tropical. Black from unripe, white from nearly ripe fruit
⁹ yrethrum	Chrysanthemum cinerariaefolium, other species	15,811,329	Austria, Japan, U. S. (experiment)	Perennial	Deep, rich loam	Seeds, harvest flowers	Cool growing season needed. Not promising
Quassia Jamaican Surinam	Picraena excelsa Quassia amara	625,151	West Indies W. Indies, Tropical America	Tree Tree			Drug made from chips, tropical Tropical
Quinine	Cinchona Ledgeriana, other species	1,618,252	Java, India, Jamaica	Evergreen tree			Tropical
Rosemary	Rosmarinus officinalis			Perennial to 4 feet	Well drained light soils	sions, seed	18"x24", sun. Perfumes,preserves. Herb
antonin	Artemisia Cina	,	Turkestan	Semi-shrubby perennial	Dry, poor soil	Divisions I	Dried unopened lowers used for worms
+102F							· v. illa

^{*1935} or a recent average—crude product.

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gal. 8.00

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*Diluted and applied as a spray, its scientific balance of soil nutrients and killing elements feed the desirable turf grasses and kill Crab Grass, Chickweed and Spurge. Since it kills both plants and seed, it checks reinfestation the following year and is not toxic to the soil. One oz. of ALFCO treats 200 sq. ft.

*A few drops of undiluted ALFCO applied to the crown of practically any undesired plant—Dandelions, Plantain, Buckhorn, etc.—will destroy both plant and roots. One oz. kills 100 dandelions.

Home-owners quickly appreciate a means of ridding their lawns of unsightly crab grass and weeds, and also ALFCO's economy and ease of application.

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Table 2. Herbs, Spices, Etc. (Continued)

Common Name	Scientific Name	Imports (Pounds)*	Commercial Areas	Type Plant	Soils	Culture	Notes
Sage	Salvia officinalis	1,446,143	Southern Europe	Shrub-like herb	Well drained, rich loam	Seed, cuttings 12"x24"	Cut before blooming. Adapted
Savory Summer Winter	Satureia hortensis S. montana		:	Annual to 18 inches Perennial	I ight, rich loam Poor, dry	Seeds, sun	Cut at beginning of bloom and dry in
Senna Alexandrain Indian	Cassia acutifolia C. angustifolia	2,304,312	India	Perennial	Loam	,	shade Leaflets and pods dried in sun Cathartic
Sorrel	Rumex sp.			Perennial	Any soil	Divisions	May become a pest
Southernwood	Artemisia abrotanum			Small shrub	Sandy soil.	Sun	Old man. Lad's
Stramonium	Datura Stramonium	404,219	U. S., Europe	Annual	Not particular, moist	Seed direct in field	Leaves and flowers
Tansy	Tanacetum vulgare		Michigan	Perennial	Not particular	Seeds, roots, 18"x36", sun	Cut plants in full flower, dry in shade
Tarragon	Artemisia Dracunculus			Perennial to 3 feet	Well drained, sandy soils	Division, sun or	Leaves used for seasoning. Herb
Thyme	Thymus vulgaris			Shrub-like perennial	Well drained, sandy soils	Seed, cuttings 18"x36"	English, French, Norwegian best
Tonka bean	Dipteryx odorata	514,741	South America	Large tree		Tropical	Substitute for vanilla
Vanilla	V. planifolia	828,625	East and West Indies	Climbing vine		Tropical	Greenripe fruits
Verbena Lemon	Lippia citriodora		Tropics	Perennial to 10 feet	Not particular	Sun	Tropical. Never less than 55° F.
Wormseed American	Chenopodium ambrosioides		Maryland, Illinois	Annual	Not particular	Seed 18"x48" on low ridge, cut tops	reos chan os 1.
Wormwood	Artemisia absinthium		Wisconsin, Michigan	Herbaceous perennial		Seed fall, plants	Cut plants in full bloom and distil.
Wormwood	Artemisia sp.	See Table 1					Not very promising

Table 3. Miscellaneous Crops

Common Name	Scientific Name	Imports (Pounds)*	Commercial Areas	Type Plant	Soils	Culture	Notes
Acacia Huisache	A. Farnesiana			Shrub	Not particular	Grows wild,	N. Texas. Flowers used for perfume
Camphor	Cinnamomum Camphora	1,541,936 1,256,278 1,181,631	(crude) China (refined) (oil) Japan	Evergreen tree	Well drained sandy loam	Hardy along Gulf Coast. Ornamental	Wood and leaves
Candelilla	Euphorbia antisiphilitica Pedilanthus Pavonis	10,420,568	Mexico	Leafless shrub	Well drained loam	Wild in West Texas	Wax on stems re- moved by hot water
Castor bean	Ricinus communis	77,048,961 258,343	(beans) (oil)	Annual or longer	Not particular	Seed in field	Difficult to harvest.
Chicle	Achras Sa;ota	7,775,221	Mexico, British Honduras	Evergreen tree	Rich, sandy loam, lime	Tropical	Source of chewing gum. Fruit is Sapodilla
Citronella	Cymbobogon Nardus	1,682,574	Java, Ceylon	Grass		Tropical	Lemon grass is C. citratus
Damar	Balanocarpus Heimii Other plants	15,004,904	East Indies	Trees			Tropical. Varnish
Devil's Shoe String	Tephrosia virginiana		Native to E. and N. Texas	Herbaceous perennial	Rather widely adapted	Collected, could be cultivated	A promising source of rotenone. Selec- tions made by Station
Gum arabic	Acacia Senegal	7,954,840	Sudan	Shrub	Well drained loam	Tropical	Trees are tapped when fruit is ripe
Gum tragacanth	Astragalus gummifer	2,473,524	Persia	Shrub	Light, porous soil	Full sun	Mesquite gum a
Guayule	Parthenium argentatum	1,028,400	Mexico	Low shrubby perennial	Well drained loam, lime	Cultivation just starting	Native to SW. Texas, Prog. Rept.
Kapok	Ceiba pentandra	12,385	Tropics of Amer. Asia	Large tree			Tropical. Fiber from fruit; oil from seeds
Lacquer	Rhus verniciflua	7,483,575	Japan	Tree to 60 feet	Poor, dry soil	Seeds or cuttings	Tree is tapped. Hardy. Foliage poisonous
Mesquite gum	Prosopis chilensis			Shrub or small tree	Widely adapted	Native in Texas	Method of collec- tion to be studied
Olive	Olea europaea	53,540,670	Most subtropics, California	Evergreen tree	Well drained, fertile soil	Cuttings or grafted	Minimum temp. 14° F. Low humidity. Mission

^{*1935} or a recent average—crude product.

Table 3. Miscellaneous Crops (Continued)

Common Name	Scientific Name	Imports (Pounds)*	Commercial Areas	Type Plant	Soils	Culture	Notes
Palm oil	Elaeis guineensis	297,579,208 50,592,641	Sumatra, Java, West Africa	Tree			Tropical. Nut oil and kernel oil different
Rape	Brassica Napus Other sp.	8,039,719 gallons oil	Eu., India, China, U. S.	Annual	Not particular	Seed in field Turnip, rutabaga	Edible oil from seed. Other parts eaten
Rose oil	Rosa damascena and R. Centifolia	38,810 oz. essence	Bulgaria	Shrub	Well drained loam	Set plants 2x3 feet	
Sansevieria	S. longifolia other species		Africa, India	Herbaceous perennial	Well drained loam	Moderate light needed	Bowstring hemp. Tender house plan
Sisal Yucatan	Agave sisalana, A. fourcroydes Other species	125,931 tons	E. and W. Indies, Africa, Hawaii	Shrubby perennial	Well drained gravelly, lime	Little cultivation required	Tender. 12 species native lechequilla dominant in W. Texas
Sumac	Rhus copallina			Large shrub	Not particular	Collected	Tanning material extracted from leaves
Tallow tree	Sapium sehiferum		China	Deciduous tree	Well drained sandy loam	Seeds or cuttings	Wax on seeds, oil within seeds. Adapted
Tung-oil	Aleurites fordii A. montana	120,058,817	China	Deciduous tree	Well drained sandy loam	Seed or cuttings	Oil from seeds. Adapted to SE Texas
Waxmyrtle Southern	Myrica cerifera			Shrub or tree to 40 feet	Moist, sandy loam	Mostly uncultivated	Wax from berries. Bark of root for drug
Yucca and related plants	Y. Treculeana Y. Schottii, Y. australis Samuela Carnerosana Hesperaloe funifera Hesperoyucca spb.		Mexico	Shrubby pecennial	Well drained, sandy, gravelly loam, lime	Little cultivated except as ornamental	13 species native to Texas. Fiber hard to remove, clean

^{*1935} or a recent average—crude product.

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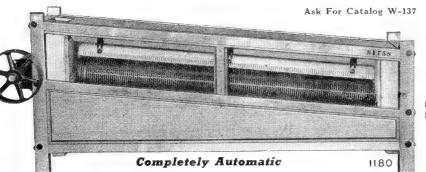


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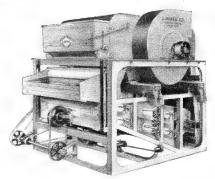


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Vegetables at a Glance

A digest of the leading varieties for commercial and home use

BEANS

Variety	Season	Plant	Pod	Color	Seed Color
			Shape	Color	3000 00101
Asgrow Stringless Tendergreen	Early	Bush, large	Straight, round	Med. green	Mottled purple
Black Valentine Stringless	Early	Bush, large	Straight, oval	Deep green	Black
Blue Lake Bountiful Burpee's Stringless Cornfield Decatur French's Hort. Full Measure	Mid Early Early Late Early Late Early	Pole, large Bush, medium Bush, medium Pole, large Pole, large Bush, medium	Round, straight Straight, flat Curved, round Straight, round Near straight Straight, broad	Med. green Light green Med. green Med. green Bright green Green and carmine Med. dark	Ivory white Straw Coffee-brown Mottled buff Ivory white Mottled red
Giant Stringless Golden Wax Ideal Market Kentucky Wonder Kidney Wax Lazy Wife London Hort.	Early Early Early Mid Mid Late Late	Bush, medium Bush, medium Pole, medium Pole, large Bush, medium Pole, medium Pole, large	Straight, round Straight, oval Curved, round Curved, round Curved, oval Clusters, oval Curved, thick	green Med. green Waxy yellow Silv'ry green Med. green Med. yellow Med. green Dark green	Mottled brown Yellowish brown Mottled white Black Buff White, black eye White
McCaslan Pencil Pod Plentiful Rd. Pod Kid. Wax Red Valentine Refugee Stringless Sure Crop Tenn. Green Pod Webber Wax Wht. Creaseback	Mid 2nd Early Early Mid 2nd Early Late 2nd Early Early Early Early Mid	Pole, large Bush, medium Bush, medium Bush, large Bush, medium Bush, large Bush, large Bush, large Bush, medium Bush, dwarf Pole, medium	Curved, thick flat Curved, round Straight, flat Sl. curved, round Curved, round Straight, round Straight, thick Very large, stringy Straight, flat Sl. curved, round	splashed Med. green Med. yellow Light green Med. yellow Med. green Light green Deep yellow Dark green Bright yellow Med. green	Mottled Red Ivory Black Black White, black eye Mottled buff Mottled purple Black Med. brown Yellowish buff Ivory

GARDEN CORN

Adams Extra Early Early Alameda White 6 12-14 Roasting 5 Bantam Evergreen Late White 7 12-16 Sweet 5 Bantam Evergreen Late Yellow 8 14-18 Sweet 7 Bantam Evergreen Main White 8 8 V. sweet 7 Country Gentleman Late White 7½ 10-12 Sweet 5½ Early Evergreen Late White 7½ 16-20 Sweet 7 Early Evergreen Late White 6 8 Sweet 7 Early Evergreen Late White 6 8 Sweet 7 Early Early Evergreen Main Yellow 6 8 Sweet 7 Golden Bantam Improved Main Yellow 7 10-14 Sweet 5½ Golden Early Market Early Yellow 8 12-14 Sweet 5½ <td< th=""><th></th><th></th><th></th><th></th><th>Ears</th><th></th><th></th></td<>					Ears		
Alameda Bantam Evergreen Late Yellow 8 14-18 Sweet 7	Variety	Season	Color		Rows	Туре	Stalk in Feet
Whipple's Early Yellow Main Yellow 7 12-16 Sweet 6	Alameda Bantam Evergreen Black Mexican Charlevoix Country Gentleman Early Evergreen Early Market Golden Bantam Golden Bantam Improved Golden Cross Bantam* Golden Early Market Honey June Howling Mob loana* Marcross* Mossheart Oregon Evergreen Spancrosps* Stowell's Evergreen Surcropper Tendergold*	Main Late Main Main Late Late Early Main Main Main Early Late Main Early Late Early Late Late Late Late Early Late Late Late Early	White Yellow White Yellow White White White Yellow Yellow Yellow White White White Yellow Yellow Yellow Yellow White Yellow White Yellow White White Yellow White White Yellow White Yellow White Yellow White Yellow White	7 8 6 ½ 7 ½ 6 6 7 8 7 8 7 ½ 7 8 7 ½ 9 7	12-16 14-18 8 10-12 Zig-zag 16-20 10-12 8 10-14 12-16 12-16 12-16 12-14 12-14 10-14 10-14 10-14 10-14 10-14 10-14	Sweet Sweet V. sweet Soweet	577751/2 7741/2 7741/2 61/2/2 877558775587757

*-- A hybrid variety.

GARDEN PEAS

Variety		*****	Pla	nt		Pod			Siil
wariety	Season	Wilt*	Inches	Color	Shape	Color	Inches	Seed	Similar Strains
Alaska	1st Early	w. r.	28	Light	Blunt	Light	21/2	Smooth	·
Alderman	Main	w.r.	50	Dark	Pointed	Dark	41/2	Wrinkled	T-1 - 1
Amer. Wonder	Early -	1.	12	Dark	Blunt	Light	21/2	Wrinkled	Telephone
Bountiful	1st Early	w. r.	30	Med.	Pointed	Med.	3		A
Champion of Eng.	Late	1	50	Med.	Blunt	Light	3	Dimpled	Ameer
Dwf. Telephone	Late	w. r.	24	Light	Pointed	Light	41/2	Wrinkled	
Everbearing	Late	w.r.	28	Dark	Blunt	Light	3	Wrinkled	/37 40
Giant Stride	Late	w. r.	26	Dark	Pointed	Dark		Wrinkled	No. 40.
Gilbo	Main	w. r.	26	Dark	Pointed	Dark	43/4	Wrinkled	Icer.
Gradus	Early		32	Med.	Pointed	Med.	41/2	Wrinkled	Wy. Wonger.
Hundredfold	Early		20	Dark	Pointed	Dark	4	Wrinkled	
Laxtonian	Early		16	Dark	Pointed	Dark		Wrinkled	
Lax's. Progress	Early	[]	15	Dark	Pointed		41/4	Wrinkled	
Lax's. Superb	Early		17	Light	Pointed	Dark	41/2	Wrinkled	
Little Marvel	Early	- !!	18	Dark	Blunt	Med.	4 3 3	Dimpled	arly Bird
Marrowfat Wh.	Late	w. r.	50	Med.		Dark	3	Wrinkled	
Morse's Market	Main	w. 1.	26	Med.	Blunt	Light	3	Smooth	
Nott's Excelsion	Early		15	Dark	Pointed	Dark	41/2	Wrinkled	
Onward	Main	li li	26		Blunt	Light	23/4	Wrinkled	
Pedigree Ex. Ey.	1st Early	w. r.		Light	Blunt	Dark	23/4	Wrinkled	
Pilot	Early	w. 1.		Light	Blunt	Light	21/2	Smooth	First & Best
Premium Gem	Early			Med.	Pointed	Med.	31/2	Smooth	
Stratagem	Late	w. r.		Dark	Blunt	Light	23/4	Wrinkled	
Teton	Main				Pointed	Dark	41/2	Wrinkled	
Thomas Laxton	Early	w. r.			Blunt	Dark	33/4	Wrinkled	
World's Record					Blunt	Dark	31/2	Wrinkled	
TOTAL S RECOID	Early	!!	24	Light	Pointed	Med.	31/2	Wrinkled	

*w. r.—Resistant to Fusarium wilt.

CABBAGE

Variety	Season	Shape	Diam. Inches	Weight in lbs.	Yellows-resistant Strain
All Head All Season Amer. Drumhead Charleston Wakefield Copenhagen Market Early Flat Dutch Early Round Dutch Glory of Enkhuizen Golden Acre Green Acre Hollander Jersey Wakefield Mammoth Red Rock Midseason Market Jenn. State Denn. State Drem. Late Dutch Red Dutch Davoy Perfection Succession Vinningstadt	Mid Mid Late Early Mid Mid Mid Early Early Late Early Late Late Mid Late Late Mid Mid Mid	Med. flat Flat globe Flat Conical Globe Flat Globe Globe Globe Globe Globe Globe Globe Flat globe Flat globe Flat globe Flat globe Flat globe Globe Conical Globe Flat globe Flat globe Conical	9 9 12 6½ 6 11 7½ 8 6 6 7½ 7 7 8 7 10 7 7	6 8 11 4 31/2 10 41/2 6 3 3 61/2 21/2 7 6 51/2 8 7 6 8 3 31/2	All Head Select Wisc. All Season {Racine Market Marion Market Improved Globe Resist. Gold Acre Wisc. Hollander Jersey Queen Red Hollander

LETTUCE

Variety	Season	Туре	Size	Outer Color	Seed	Use
Big Boston Brown Dutch	Mid Mid	Butter head Butter head	Medium Medium	Dark green	White	Local
Chicken	Mid	Non-heading	Very tall	Dark green Dark green	Black White	Home Chickens
Dark Green Cos	Mid	Cos	Med. large	Dark green	White	Home
Grand Rapids	Early	Loose	Large	Light green	Black	Forcing
Hanson	Mid	Cabbage	Large	Yellow green	White	Local
Iceberg	Late	Cabbage	Large	Light green	White	Local
Imperial F	Late	Cabbage	Medium	Bright green	White	Shipping
Imperial D	Late	Cabbage	Medium	Bright green	White	Shipping
Imperial 44 Imperial 152	Late	Cabbage	Med. large	Light green	White	Shipping
Imperial 847	Late	Cabbage	Med. large	Light green	White	Shipping
Imperial 850	Late Late	Cabbage	Med. large	Med. light green	Black	Shipping
May Oueen	Early	Cabbage Cabbage	Med. large	Med. light green	White	Shipping
New York	Late	Cabbage	Med. large	Light green	White	Forcing
New York 12	Mid	Cabbage	Large	Bright green	White	Shipping
New York 515	Mid	Cabbage	Large Med. large	Lighter than N.Y.	White	Shipping
Prize Head	Early	Loose	Medium	Brighter than 12 Tinged brown	White	Shipping
Salamander	Mid	Butter globe	Medium	Med. green	White Black	Home
Simpson b. s.	Early	Loose	Large	Light green	Black	Local Local
Simpson Ey. Curled	Early	Loose	Med. large	Yellow-green	White	Local
Tennisball	Mid	Butter globe	Medium	Med. green	White	Local
White Boston	Mid	Butter head	Medium	Med. green	White	Local
White Paris	Mid	Cos	Med. large	Med. dark green	White	Local

ONIONS

	Season	Shape	Exterior Color	Notes
Australian Brown Brigham Yellow Globe Crystal Wax Early Yellow Globe Ebenezer Golden Globe Nebuka Prizetaker Red Wethersfield Southport Red Globe Southport White Globe Southport Yellow Globe Sweet Spanish White Sweet Spanish Yellow White Portugal Yellow Danvers Globe Yellow Strasburg	Mid Mid Early Early Mid Late Perennial Mid Late Mid Late Mid Late Mid Late Mid Late Mid Late Mid Mid Mid Mid Mid	Flat globe Globe Flat Globe Deep flat Long globe Bunching Large globe Deep flat Globe Globe Globe Globe Globe Thick flat Globe Flat	Brown Yellow White Rich yellow Dk. yellow Rich yellow White Lt. yellow Purple red Purple red White Orange yellow White Amber gold White Med. yellow Yellow	Strong flavor Good keeper For S. W. shippers Good keeper For good sets Good for sets Does not bulb Thin skin For sets & storage The best red The best white Good keeper Large size Large size Large size Pickles & bunching Standard variety Hardy, keeps well

MELONS

Variety	Season	Shape	Size Inches	Exterior	Wt. lb.	Flesh	Use, etc.
Banana	Main	Long	20x4	Lemon	7	Salmon	Home
Bender's Surprise	Main	Oval	8x7	Deep furrows	7	Salmon	Local
Burrell's Gem	Main	Long Oval	7x5	Heavy net	31/2	Pink	Shipping
Cassaba	Late	Round	8x7	Yellow	6	White	Calif. Shipping
Eden Gem	Early	Globe	51/2x5	Thick net	3	Green	Shipping
Emerald Gem	Early	Round	4½x5	Smooth ribs	21/4	Salmon	Home
Fordhook	Early	Oblate	4x5	Netted ribs	2	Salmon-yel.	Home
Hackensack	Early	Round	5x6	Deep furrows	3	Green	Home
Hale's Best	Early	Oval	6x5	Heavy net	4	Salmon	Shipping
Hearts of Gold	Main	Globe	6x6	Netted ribs	21/2	Pink	Shipping
Honey Ball	Late	Globe	5x5	Nr. smooth	31/2	Green	All-Purpose
Honey Dew	Late	Round	71/2x7	Smooth	6	Green	Shipping
Honey Rock	Early	Globe	51/2x5	Coarse net	31/2	Salmon	Local
Milwaukee Mkt.	Early	Round	7x6	Shallow ribs	51/2	Deep Pink	Home
Montreal Mkt.	Main	Round	7x8	Deep ribs	71/2	Green	Home
Netted Gem							
(Rocky Ford)	Main	Round	51/2×5	Heavy net	21/2	Green	Local
No. 45	Main	Oval	6x5	Heavy net	4	Salmon	Shipping
Osage	Main	Oval	7x6	Dark green	5 3	Salmon	Home
Perfecto, Impd.	Main	Round	6x5	Medium net	3	Orange	Shipping
Pollock 10-25	Main	Globe	$6x5\frac{1}{2}$	Thick net	21/2	Salmon	Shipping
Pride of Wisc.	Main	Round	6x5½	Sparse net	31/2	Orange	Local
Queen of Colo.	Main	Round	61/2×6	Coarse net	4	Orange	Local
Tip Top	Main	Oval	7x6	Slight ribs	6	Salmon	Local

*-Mildew-resistant



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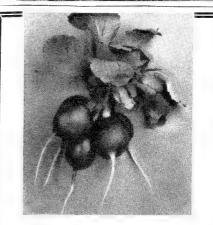
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"The Home of the Cantaloupe"

PEPPERS

			Length	Diam.	Co	lor	
Variety	Season	Flavor	Inches	Inches	Young	Mature	Shape
Bell California Wonder Cayenne Chinese Giant Early Giant Hungarian Paprika Pimento Red Chili Ruby King Squash (Tomato) Tabasco World Beater	Early Mid Mid Late Early Early Mid Mid Late 2nd Early Late Late Late Mid	Sweet; hot ribs Sweet Very hot Sweet Sweet Pungent Mostly sweet Sweet Very hot Sweet Sweet Hot Sweet	3 41/2 5 41/2 6 4 31/4 2 5 11/2	23/4 31/2 3/4 41/2 31/2 11/2 11/4 21/4 21/4 21/4 21/4 3 21/4 3/2	Green Green Green Green Green Green Green Green Green Green Green Green	Red Crimson Red Scarlet Red Crimson Dk. red Crimson Dk. red Red Red Red Red Red	Blocky Oblong Long pointe Square Nr. square Long pointe Tapered Heart Tapered Tapered Tomato Tapered Oblong

RADISHES

Variety	Season	Days	Outer Color	Shape
Cavalier China Rose China White Crimson Giant Early Scarlet Globe French Breakfast Icicle Long Scarlet Scarlet Turnip	Summer Winter Winter Summer Summer Summer Summer Summer	24 55 60 30 24 25 30 28	Scarlet Bright red White Deep crimson Scarlet Scarlet, white tip White Deep scarlet	Olive Oblong, 5" long Oblong, 8" long Turnip, 1½" diam. Olive to glohe Oblong, 1½" long Tapered, 5" long Tapered, 5" long
white-tipped Spanish Long Spanish Round Sparkler White Strasburg	Summer Winter Winter Summer Summer	27 56 56 27 40	Scarlet, white tip Black Black Scarlet, white tip White	Turnip, 1" diam. Cylindrical, 8" long Turnip, 3" diam. Near globe, 1½" diam. Tapered, 5" long

TOMATOES

Variety	Season	Plant		Fruit	
		- Tall (Shape	Color	Size
Bonny Best Break o'Day Cardinal Chalk's Jewel Clark's Early Cooper's Special Earliana Golden Queen Greater Baltimore Grothen's Globe Gulf State Mkt. June Pink Livingston's Globe Marglobe Mingold Oxheart Ponderosa Pritchard Rutgers Scarlet Dawn Stokesdale Stone	Main Early Main Main Main Early Main Early Late Main Early Main Early Main Main Main Main Main Late Late Main Early Main Late Late Late Main Early Late Late Late Late Main Early Late	Medium *Medium Strong Medium Prolific Short Short Medium Large *Medium heavy Medium Short Strong *Large Medium Large *Medium Medium Large Medium Large Medium Large Medium Medium Medium large Large	Oblate Globe Semi-globe Fl. globe Oblate Globe Fl. globe Deep flat Flat Globe	Red Red Red Red Red Pink Red Yellow Red Pink Pink Pink Pink Red Yellow Pink Red Yellow Pink Red Red Red Red Red Red Red	Med. large Medium V. large Medium Medium Medium Medium Large Large Medium Med. large Med. large Med. large Med. large Med. large Med. large Medium Large Med. large Med. large Medium Med. large Large Medium Med. large

^{*}Varieties so marked are in greater or less degree resistant to disease.

WATERMELONS

Variety	Season	Color	Shape	Wt., lbs.	Seed	Use, etc.
Ala. Sweet	Mid	Green, striped	Oblong	25	White, mottled	Shipping
Chilean	Mid	Med. gn., striped	Thick oval	18	Black	
Cole's Early	Early	Dr. gn., striped	Thick oval	20	Black	Shipping Home
Dixie Queen	Mid	Lt. gn., striped	Thick oval	30	White	Shipping
Early Kansas	Mid	Dk. gn., striped	Thick oval	40	Brown	Local
Fla. Favorite	Early	Med. gn., striped	Long oval	30	White	Local
Fla. Giant	Late	Dark green	Round	50	Black	
Ga. Rattlesnake	Mid	Lt. gn., mottled	Oblong	30	White, bl. tip	Shipping
Golden Honey	Mid	Dark green;	Colong	30	winte, br. tip	Shipping
		flesh yellow	Thick oval	20	Brown	TT
Graystone	Mid	Grav-green	Thick oval	35	White	Home
Halbert's Honey	2nd Early	Dark green	Cylindrical	30		Local
Hawkesbury		Dan Breen	Cymidical	30	White, bl. tip	Local
(Grey Shipper)	Mid	Grav, veined	Oblong	35	Dark brown	61:
Irish Gray	Late	Light green	Oblong	30	White	Shipping, w.r.*
King & Queen	Mid	Cream, striped	Round	12		Shipping
Klecklev's Sweet	Mid	Dark green	Oblong cyl.	30	Black	Storing
Klondike		Dark green	Thick	30	White, br. tip	Kleckley No. 6 is w.r
		our a green	oblong	25	Black	***
Striped do	2nd Early	Green, mottled	Thick	23	ыаск	Klondike R 7 is w.r
_	1	orcen, mottled	oblong	25	D1 1	a
Leesburg	Mid	Deep green	Oblong	30	Bl. mottled	Shipping
Northern Sweet	Early	Gn., thin stripes	Short oval	12	White	Shipping, w.r.*
Peerless	Late	Med. green	Short	12	Brown, dk. edge	Home
		141Cd. green	oblong	20	3371.14	
Schochler	Late	Gn., faint stripes	Large long		White	Home
tone Mountain		Med. dk. green	Round-oval	45	Brown	Shipping
hurmond Grey		Gray-green		40	White, bl.	Stone Mt. No. 5 is w.r
Com Watson		Deep green	Long, cyl.	35	Brown	Shipping
Vondermelon			Cylindrical	35	Br., mottled	Shipping
· oc.	11110	Dark Ricell	Large	25	****	
			oblong	35	White	Local

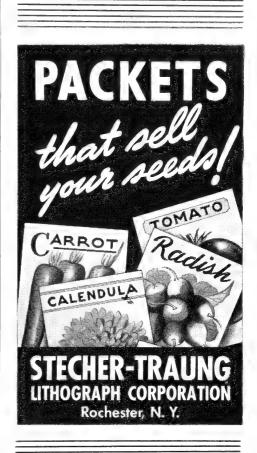
^{*}w.r.-resistant to Fusarium wilt.

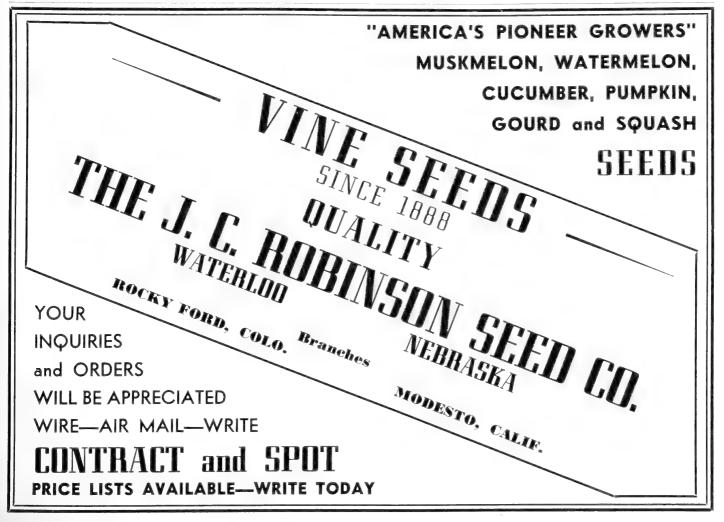
CUCUMBERS

	Use	Season	Spines	Length Inches	Diam. Inches	Color	Shape
A & C Arlington Boston Pickling Chicago Pickling Clark's Special Colorado Davis Perfect Early Fortune Gherkin Long Green, Imp'd. Lemon Longfellow Nat. Assn. Pickle Snow's Perfection Stavs Green	Slicing Slicing Pickling Pickling Slicing Slicing Slicing Slicing Slicing Slicing Slicing Pickling Pickling	Mid Early Early Early 2nd Early Mid 2nd Early 2nd Early Mid Mid Early Mid Mid Late Early Early Early	White White Black Black White White White Green Black Black White Black White Black White	8½ 7½ 6½ 8½ 8½ 9 8 2½ 11 3 12 6 5½	2 1/4 2 1/2 2 1/4 2 1/4 2 1/4 2 1/2 2 1/2 2 1/2 2 1/2 2 1/2 2 1/2 2 1/4 2 1/4	Dark green Med. green Med. green Med. green Dark green Dark green Dark green Light green Light green Lemon Very dark Dark green Dark green Dark green	Cylindrical Semi-blunt Slight taper Blunt ended Tapered, blocky Cylindrical Tapered Slight taper Oval Straight, warted Oval Straight, blunt Straight Blunt ended
Straight-8 Woodruff	Slicing Slicing	Mid 2nd Early	White White	8	21/2	Dark green Dark green	V. slight taper Cylindrical Taper to ends

LIMA BEANS

			Pod			Seeds	
Variety	Plant	Length Inches	Width Inches	Seeds Per Pod	Size	Shape	Color
Baby Potato Burpee Imp'd. Challenger Clark's Bush Dreer's Florida Butter Fordhook Henderson's Jackson Wonder King of Garden	Bush, large Pole Bush, small Bush, large Pole Bush, large Bush, small Bush	23/4 5 4 1/2 23/4 31/4 31/4 4 23/4 6	3/4 11/4 11/4 11/4 3/4 1 3/4 1 3/4 1 1 3/4 11/4	3-4 4 4 3-4 3-4 3-4 3-4 3-4 4-5	Small Large Large Small Large Small Large Small Small Large	Thick Thick, flat Thick, oval, flat Thick, oval Oval Thick, oval Oval, flat Flat Thick, flat	Bright green Greenish white Pale green Green Greenish white Buff, speckled White Buff, mottled
Large White Seibert's Early Sieva	Pole Pole	41/2	11/4	4 3-4	Large Small	Squarish Flat	White White
Small White } Wood's Prolific Yopp's Prolific	Bush Pole	31/ ₄ 31/ ₂	3/4 3/4	3-4 3-4	Small Medium	Flat, oval	White White





LANGUAGES FOREIGN OF VEGETABLES NAMES

Blatterkohl......Col que no repolla. Cavola senza

Kohlrabi......Col Rabano.....Cavola Rapa

Lavendel.....Espliego.....Lavanda

Administration of Antischeke Alexand Activity Antischeke Alexand Antischeke Alexand Activity Antischeke Alexand Asparage	English	French	German	Spanish	Italian	English	French	German	Spanish	
Artichaut Banding Chromelle Gravel Besilico Benezia Gartenbohren Remaines Processor Besilico Benezia Gartenbohren Remaines Bertraren Ber	Anise	Anis Vert	Anis	Anis	V	Kale	Chan Bricks	Dlatterlead		
Approprese App	Artichoko	Artichant	Amticoholo				ciiou riises	Diatterkom	Cor due no repoll	a.
Apparelle Appa	A	:	:	Alcaucii	Carcioto.	V-11-1:	a myer	· · · · · · · · · · · · · · · · · · ·		
Basility Mojess Lavender <	Asparagus	:	:	Esparrago	Asparagi	Nontrabl	Chou Kave	Kohlrabi	Col Rabano	:
Basilic Basilico Lech Porce Oder Lanch Hariott Basilic Lerin Porce Oder Lanch Betterret Gartenlohnen Hoto Fagoli Feves Gartenlohnen Haba Fava Betterret Romanche Bernatsch Roman Betterret Roman Bernatsch Roman Bournache Bernatsch Roman Majoran Chous Chone Chineser-Kohl Repollo Cavolo Chinese Chou de Milan Virsing Repollo Cavolo Chinese Chou de Milan Wirsing Repollo Cavolo Chinese Chon de Chine Chineser-Kohl Repollo Cavolo Chinese Chou de Milan Wirsing Repollo Cavolo Chinese Chou de Milan Wirsing Repollo Cavolo Chinese Chou de Milan Krabel Aponin Cavolo Chinese Chou de Milan Krabel Aponin Cavolo Chinese Chou de Milan Krabel Abonin Cavolo Chine		Citronelle	. Citronenmelisse.	Toroniil	Melissa	Lavender	Lavande	Lavendel	Espliego	
Herricott Bohne Poroto Eggioli Dettoe Latture Bohne Poroto Bettersve Gartenbehnen Haba. Bertansoe Bettersve Gartenbehnen Haba. Bertansoe Bettersve Gartenbehnen Haba. Bertansoe Bettersve Remolecule Bertansoe Gartenbehnen Haba. Bertansoe Bettersve Remolecule Bertansoe Gavolo di Buxaella Golou de Chine. Choux de Bruxelles Recensholl Gavolo (Gavolo (Ga		.Basilic	. Basilikum	Albohaca	Basilico	Leek	Poireau	Porree Oder Lauc	h.Puerro	
Revest Gartenbohnen Haba. Fayson Lettues Lattues Pommées. Kopfsalt. Betrearche Rencischen Bernabeliene Barbalsieole Marjourache. Bernatene Runder Betrearene Runder Gono-Broccii. Broccoli.			Bohne	Poroto	Famili	Lentil	Lentille	Linse	Lenteia	
Betterave Roteriben Randschela Raybalietole Betterave Randschela Barbalietole Borteach Borteach Bortano Gloud-Broceil Borteach Bortano Gloud-Broceil Broceil Broceil Gavolo Chinese Chou de Grime Chinese-Kiell Republic Gavolo Chinese-Chou de Grime Chinese-Kiell Republic Gavolo Chinese Chou de Grime Chinese-Kiell Republic Gavolo Chinese Cardon de Grime Chinese-Kiell Gardon de Brumenkohl Cardon de Mais Cardon de Grime Coninge de Mais Cardon de Mais Cardon de Mais Cardon de Mais Cardon de Mais Cardon de	ean	Feves	Cartenhohnen	Hobo	ragion	Lettuce	Laitnes Pommées	Konfealat	Leohman	:
Bourrache Boresch Brotesia Bartensteole Guous Guous Broccoit Brocc		Retterave	Botoriibon	D	rava	Mangel Wurzel	Betterave	Rupkelp	Demoloska	:
Bournater Bornater Bournater Chou de Grime Chou de Milan Merban Repollo Cavolo Chinese Chou de Grime Chou de Milan Merban Repollo Cardon de Proses Cardon de Cardon de Proses Cardon de Proseson	D. C	Dellelave	:		Barbabietole	Transport in all port	Detterave	Munkelli	nemolacna	:
Clour Brocoli. Brocoli. Brocoli Guineee Choux. Choux. Kopkoni. Cavolo Guineee Choux. Kopkoni. Republ. Cavolo Chineee Choux. Kopkoni. Republ. Cavolo Chineee Choux. Chineer-Kohl. Republ. Cavolo Chineee Choux. Chineer-Kohl. Republ. Cavolo Chineee Choux. Chou de Milan. Wirsing. Republ. Cavolo Verza Carota Periolic Cavoli Fiori Carota	Borage	Sourrache			Borrano		tourrangere		forrajera	:
Choux de Bruxelles Reenkohl Col de Bruxelles Cavolo di Bernxelle Catoou de Chine Chineser-Kohl Repollo Cavolo Verane Chou de Chine Chineser-Kohl Repollo Cavolo Verane Cardou de Chine Chineser-Kohl Repollo Cavolo Verane Cardou de Chine Chineser-Kohl Repollo Crispo Cavolo Verane Cardou de Chine Cardou de Cardou de Cardou de Chine Cardou de Cardou	Broccoli	Chou-Brocoli		Broculi	Cavolo Broccolo	Marjoram	Majorlaine	Majoran	Majorana	
Caronto de Milan. Wirsing. Cavolo Chinese. Chou de Charam. Caronto Caronto Cavolo Caronto Caro	Brussels Sprouts	. Choux de Bruxelle		Col de Bruselas	Cavolo di Bruxelle	Mint	Menthe	Minze	Menta	
unese. Chou de Chine. Chineee-Kohl Irrepare Cavolo Verza Cumin des Milan Wirsing Repollo Crispo. Gavolo Verza Cumin des Milan Wirsing Repollo Crispo. Gavolo Verza Cumin des Milan Wirsing Cardonen Cardon Cardon Cardon Cardon Cardon Cardon Karden Kanden Kardel Colitore Cardon Sellerie Sellerie Sellerie Sellerie Caption Cardonie Calerial Cardonia carde Rarie Calerial Caler	Cabbage.	Choux		Repollo	Carole	Musk Melon	Melon brode	. Melonen	. Melon de Castills	_
voy Chon de Milan. Wirsing. Cardon de Milan. Wirsing. Cardon de Milan. Wirsing. Cardon de Milan. Wirsing. Cardon de Milan. Wirsing. Cardon de Milan. Wirsing. Cardon de Cardon Cardon Cardon Cardon Cardon Cardon Cardon Cardon Burnenkohl Coliflor. Cardon Cardon Burnenkohl Coliflor. Cardon Cardon Burnenkohl Coliflor. Cardon Cardon Burnenkohl Califlor. Cardon Cardon Burnenkohl Coliflor. Cardon Cardon Burnenkohl Cardon a rafe Cardon a ra	Cabbage Chinese	Chon de Chine		··· repond	Cavolo	Mushroom	Champignon	Schwamm	Honor	
Voy Cumin des Pries. Wissing Kepolio Cirspo. Cavolo Verza Comino Otora Cardon des Pries.	Cabbage, Chinese	C. Cirou de Cimie			Cavolo Chinese		Language		·····	:
Cardone Cardone Cardo Cardon Cardon Cardon Cardon Cardone Card	Cabbage, Savoy.	Chou de Milan		Repollo Crispo	. Cavolo Verza	Mustard	Montarde	Sonf	Mostoro	
Cardon Cardonen Cardo Onion Common Cardonen Cardon Cardon Cardon Carota	Caraway	Cumin des Prés		. Alcaravea	.Comino	Okra	Combo	Ochen	Mostaza	
Carotte Karotten Zanahoria Cavoli Fiori Persile Petersilie Cartennelle Petersilie Petersilie <td>Cardoon</td> <td> Cardon</td> <td></td> <td>. Cardo</td> <td>. Cardo</td> <td>Onion</td> <td>Oimone</td> <td>Z-:::h-l-</td> <td>· Cumbombo</td> <td>:</td>	Cardoon	Cardon		. Cardo	. Cardo	Onion	Oimone	Z-:::h-l-	· Cumbombo	:
Céleri Rave Gridorie Gerégue Gridorie G	Carrot	Carotte		Zanahoria	Carota	Oracho	· · · Organis · · · · · · · · ·	. Zwiebeln	. Cebolla	:
Céleri Rave Knollen-Selleire Apio Sedano-rapa Céleir Rave Noulen-Selleire Apio Sedano-rapa Céleir Rave Noulen-Selleire Apio Sedano-rapa Céleir Rave Noulen-Selleire Apio-rabo Sedano-rapa Céleir Rave Céleir Céloir Radish Céloir Céleir Coriandro Coriandro Coriandro Nals and Mais Mais Mais Allor Carescione Crescione Crescione Crescione Crescione Crescione Crescione Certicolo Coriandro Corian	Cauliflower			Coliffor	Corroll Dien:	Dandler	Description of the second of t	. Cartenmelde	Armuelle	
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Cerfeuil Kerbel Achicoria Gadonarapa Cerfoglus Chicorée Gichorienwurzel Achicoria a cafe Chicorée a cafe Gichorienwurzel Achicoria a cafe Choulette Gichorienwurzel Achicoria a cafe Choulette Gichorienwurzel Achicoria a cafe Choulette Gichorienwurzel Achicoria de raiz Cichoria a cafe Cichorienwurzel Achicoria de raiz Cichoria a cafe Cichorien Coriandro Choulette Schnittlauch Cepallino Gavolo Verzatte Chou Mais Mais Nate Eldsalat Ganonigo Valeriana Mais sueve Careson Grant turco dolce Cresson Kresse Berro Greant turco dolce Cresson Garan turco dolce Crescon Garan Caran Crescon Garan Crescon	Celeriac	Céleri Baye	Knollen Sellenie	Aniemska	Sedano	r arsmp	Fanais	. Fastinaken	.Chirivia.	
Chicotee Cichoria a cafe Chicore acafe Cichoria a cale Chicore acafe Cichorian acafe Cichoria a cale Chicore acafe Cichorian acafe Cichoria a cale Chicore acafe Cichorian Canonigo Coriandro Cicoria scarola Cicoria scarol	Chervil	Carfanil	Verbell	. Apio-rabo	. Sedano-rapa	rea	Pois	Erbse	.Arveja	:
Led Chicorée a café cichorienwurzel. Achicoria de raiz. Cichoria a cafe cichorienwurzel. Achicoria de Rais. Cichoria Mais.	:	Chierre	.Nerbel	. Ferifolio	. Cerfoglus	Feanut	Arachide	. Erdnuss	. Cacahue	
ted Chicorée a café	Chicory	Cnicoree	. Cichorienwurzel	. Achicoria	. Cichoria	Pepper	Poivre	. Pfeffer	. Pimiento	<u>P</u>
Coriondere a cate cothornemvurzel. Achinorna de rauz. Cichoria a cafe Choulette Schnittlauch Cebollino Cipollina Giboulette Schnittlauch Cebollino Coriandro Coriandro Maish Coriandro Maish Coriandro Maish Coriandro Mais sueve Koriander Coriandro Mais sueve Mais Maiz dulce Gran turco dolce Cresson Cresson de Brunnenkresse Berro Crescione delle Granturco dolce Cresson de Brunnenkresse Berro Crescione delle Cresson de Brunnenkresse Berro Containe Brunnenkresse Berro Containe Containe Containe Containe Containe Eneldo Aneth Dill Eneldo Aneth Dill Eneldo Aneth Contone Eskariol Escarola Fenoull Kroblauch Ajo Apor Aglio Thyme Turnip Garden Marrube Banc Andorn Hyssope Cochearia rustique Mecrettich Hisopo Issopo Watermelon Marrube Banc Andorn Hyssope Containe Coriandro	Chicory,	()	4			Potato	$_{\mathrm{de}}$.Kartoffel	. Papa.	
Corioucter Choolucter Choolina Cipolina Choolucter Corionacte Cori	Large Rooted.	Chicoree a cafe	Č	l. Achicoria de raiz.		Pumpkin	. Potiron	. Melonen Kurbiss.	Calabaza	
Chou. Junge-Kohl Especie de Berza Cavolo Verzatte Rhubarbe Rhubarbe Rhubarbe Rhubarbe Coriandro Coriandro Coriandro Coriandro Coriandro Coriandro Rocket Rauke Rauke Mais Mais Mais Mais Mais Mais Mayer Rocket Rocket Roue Rauke Mais Mais Mais Mais Mais Mae Meinrante Rocket Rocket Rocket Rocket Roquette Rauke Mais Mais Mais Mae Crescione Grescione Crescione Crescione Safran Sastran Salsitis Salsitis	Cuives	Ciboulette	.Schnittlauch	Cebollino	. Cipollina	Radish	.Radis	Radies	Rahano	-
Coriandre Coriandro Coriandro Coriandro Coriandro Coriandro Coriandro Coriandro Coriandro Coriandro Valeriana Rocket Raphano Raphano Masche Feldsalat Canonigo Valeriana Rosemary Rosmarin Rosmarin Mais Mais Mais Carces Rutabaga Chou-navet Kohlrübe Cresson Kresse Lepidio Crescione Gran Chou-navet Kohlrübe Cresson de Brunnenkresse Berro Crescione delle Salifron Salifron Salifron Cresson de Brunnenkresse Berro Crescione delle Crescione Gontan Salifron Newerl Salifron	Collard	Chou	.Junge-Kohl	. Especie de Berza.	. Cavolo Verzatte	Rhubarb	.Rhubarbe	.Rhabarber	Ruibarbo	: –
Mâiche Feldsalat Canonigo Valeriana Rosemary Rosmarin Rosmarin Mais Mais Mais Mais Mais Weinraute Mais Mais Mais Weinraute Weinraute Cressione Cressione Gran turco dolce Gran turco dolce Chou-navet Kohlrübe Cresson Kresse Lepidio Crescione Glafran Safran Safran Cresson de Gresson de Gresson Fontaine Crescione delle Sage Salve Salpei Concombre Gurke Pepino Cetriolo Salis Salis Salis Concombre Gurke Pepino Cetriolo Spinat Spinat Spinat Pissenlit Dill Bereldo Aneto Aneto Spinat Spinat Anoth Bereldo Aneto Dente di Leone Spinat Spinat Spinat Anterlo Bereldo Gioria scarola Gioria scarola Firmach Forase Balari	Corlander	Corlandre	. Koriander	. Coriandro	. Coriandro	Rocket	.Roquette	Ranke	Ornga Jaramago	
Mais Mais Mais Mais Mais Weinraute Mais sueve Zucker mais Maiz dulce Gran turco dolce Grascione Grascione Safran Safran Cresson Kresse Lepidio. Crescione delle Sage Saliran Cresson Brunnenkresse Berro Crescione delle Sage Saliran Cresson Brunnenkresse Berro Crescione delle Sage Saliran Concombre Gurke Pepino Cetriolo Salifis Salsifis Concombre Gurke Pepino Cetriolo Spinat Spinat Pissenlit Lowenzahn Aneto Dente di Leone Spinat Spinat Aubergine Endido Melanzana Spinat New Zealand Tetragone Spinat Aubergine Endivise Erdicorée Endivise Erdische Kurbiss Actionée-Scarole Eskariol Finocchio Pinate Procetorée Spinat Renduct	:	Mache		. Canonigo	. Valeriana	Rosemary	. Rosmarin.	Rosmarin	Romero	# 22 :
Crescione Gran turco dolce Crescione Containe Containe Containe Concombre Concorée Frisee Endivien Ander Chicorée Frisee Endivien Concidearic Concidearia Concideari	:		:	Maiz	. Mais	Rue	Rue	Weinraute	Ruda	2
Cresson de Brunnenkresse Berro Crescione delle Contane Cresson de Brunnenkresse Berro Crescione delle Contane	reet		Zucker mais	. Maiz dulce	Gran turco dolce	Rutabaga	.Chou-navet	Kohlriibe	Colinabo	: -
Cresson de Brunnenkresse Berro Crescione delle fontane fontane fontane fontane fontane fontane fortigue and berro Cetriolo Pissenlit Lowenzahn Amargon Dente di Leone Pissenlit Lowenzahn Amargon Dente di Leone Aneth Dill Eneldo Aneto Ablerania Chicorée Frisee Endivien Eskariol Escarola Cicoria scarola Fenouil Fenoul Rinojo Aglio Courge a Manger Speise-Kurbisse Calabaza Marrube Blanc Andorn Aspen Cochlearia rustique Mecrettich Taramayo Raphano Hyssope Lorden Melanzana Petro Petro Petro Salsitis	:	.Cresson.	.Kresse	. Lepidio	. Crescione	Saffron	Safran	Safran	Azəfran	ر ا
Tontane Gurke Gurke Depino Cetriolo Pissenlit Concombre Gurke Depino Cetriolo Pissenlit Lowenzahn Amargon Dente di Leone Pissenlit Lowenzahn Amargon Dente di Leone Aneto Dill Eneldo Aneto Aubergine Eierfruchte Berenjena Melanzana Ghicorée Frisee Endivien Escarola Escarola Escarola Escarola Finocionio Aglio Courge a Manger Speise-Kurbisse Calabaza Marrubio Courge a Manger Speise-Kurbisse Calabaza Marrubio Gordearia rustique Mecrettich Taramayo Raphano Gochlearia rustique Mecrettich Hisopo Watermelon Melon d'eau Salitis Sali	:	.Cresson de	Brunnenkresse	.Berro	Crescione delle	Sage	.Sauge	Salbei	Salvia	ğ 0
Courge a Manger. Speise-Kurbisse. Calabaza. Hyssope. Concombre. Cource bisentit. Lowenzahn Amargon Dente di Leone Aneto.					fontane	Salsify	.Salsifis	Salsitis	Salsifi	
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				doctro	- resolvo	watermelon	. Melon d'eau	. Wasser-Melonen.	Sandia	M

Cacahue Ceci de terra

Pisello

Pimiento Peperone

...Papa....Patata

Prezzemolo

Atreplica

Cipolle

... Chirivia Pastinaca

.. Melon de Castilla.. Melone Moscati

... Hongo.....Fungo

....Menta.....Menta

da forragio Barbabietola

Lentisschia

Lattuga

Majoran Majorana

Commestibile

. Senapa

Ibisco

8	8

fitterrüben.....Nabo Forrajero...Papa di forragio

Wasser-Melonen . . Sandia Moschata

Kohlrübe Colinabo Cavalo navone

Weinraute Ruda Ruta

Azafran....Zafferano

Rosemarino

Rhabarber.....Ruibarbo.....Rabarbaro

Oruga, Jaramago..Rucola

Rabano.....Ravanello

.Zucca

Salsitis.....Salsifi.....Scorzabianca

Salbei Salvia Salvia

Sauerampher Acedera Acetosa

Espinaca.....Spinaci

Rapa di cucina

Tomate.....Pomodoro

Comillo.....Timo

... Patata dolce

Zealandia.....Tetragona

Kurbiss.....Zapallo....Zucca

Beete (Mangold) .. Acelga......Bista

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Vegetable Planting Chart

		1	T	1				
Vegetable	Depth to Cover (inches)	Space Between Rows	Space to Set Plants or Thin Out	Time Required to Produce Cro Ready for Use	p Approximate Yield	Seed Required to Sow One Acre	Time to Plant	in Open Ground
Asparagus			Seedlings				South	North
	Seeds, 1 in. Plants, 4 in.	3 to 4 ft.	12 in.	Seeds 4 years Plants 2 years	50 bunches of 1 doz each for entire patch		Autumn or early spring	Early spring
Beans (Bush	2 in.	2 ft.	4 in.	60 to 90 days	8 qts.	50 lbs.		
see below) (Pole	2 in.	3 ft.	3 ft.	90 to 120 days	10 qts.	30 to 50 lbs.	Late spring	May and June
Beet	½ in.	18 in.	2 to 3 in.	60 to 80 days	5 doz. roots	. 8 to 14 lbs.	Feb. to April— Aug. to Sept.	April to Aug.
Broccoli	in.	2½ ft.	24 in.	120 days	20 heads	4 ozs.		
Brussels Sprouts	in.	2½ ft.	24 in.	120 days	20 qts.	4 ozs.	Jan. to July	May and June
Cabbage		2½ ft.	18 to 24 in.	100 to 150 days	10 heads	4 ozs.	Oct. to Dec.— June and July	Mar. to June
Chinese Cabbage	U, 14 in.	2½ ft.	12 in.	80 to 100 days	20 heads			
Carrot	1 % in	- 2 ft.	2 to 4 in.	45 to 60 days	5 doz. roots	3 to 4 lbs.	Mar. and AprSept	. April to June
Cauliflower		2 to 3 ft.	24 in.	120 to 150 days	8 to 10 heads	4 ozs.	Jan. and FebJune	April to June
Celery		3 ft.	6 in.	100 to 120 days	2 doz. stalks	4 ozs.	Aug. and Oct.	May and June
Corn, Sweet	2 in.	3 ft.	12 in.	80 to 120 days	40 ears	8 to 10 lbs.	Feb. to April	May to July
Cucumber	1/4 in.	4 ft.	3 to hill	60 to 80 days	20 to 30 pickles	3 to 4 lbs.	Feb. and MarSept.	April to July
Eggplant		2½ ft.	24 in.	100 to 120 days	30 to 40 fruits	5 to 6 ozs.	Feb. to April	April and May
Endive	j <u>1∕a</u> in.	2 ft.	10 to 12 in.	60 to 80 days	30 to 40 plants	4 to 5 lbs.	Feb. to April	April and July
Kale	1/8 in.	2½ ft.	12 in.	80 to 100 days	20 plants	4 to 5 lbs.	Oct. to Feb.	Aug. to Sept. —Mar. and Apr.
Leek	/2 1/8 in.	2 ft.	4 in.	100 days	60 plants	4 lbs.	May to Sept.	Mar. to May
Lettuce	1/2 1/8 in.	2 ft.	10 to 12 in.	45 to 60 days	20 heads	1½ to 2 lbs.	Sept. to Mar.	Mar. to Sept.
Melon, Musk	1/2 ¹ / ₄ in.	4 ft.	3 to hill	100 to 120 days	30 fruits	3 to 4 lbs.	Feb. to April	April to June
Beans, Limas { Bush	2 in.	3 ft.	24 in.	100 days	4 qts.	30 to 50 lbs.		
/ Pole	2 in.	4 ft.	3 ft.	120 days	5 to 6 qts.			
Onions	1/2 1/8 in.	18 in.	4 in.	80 to 110 days	80 onions 10 to 20 lbs. per row	3 to 4 lbs.	Oct. to Mar.	April to May
Onion Sets	1 in.	18 in.	2 in.	30 to 60 days	120 scallions	60 to 85 lbs.	Early spring	Autumn— Feb. to May
Peas	2 in.	2½ ft.	1 in.	60 to 100 days	10 to 20 qts. of pods	90 to 180 lbs.	Sept. to April	Mar. to June
Pepper		3 ft.	2 ft.	100 days	10 doz. peppers	½ to 1 lb.	Early spring	May and June
Potatoes	4 in.	3 ft.	6 in.	100 days	. 10 to 15 lbs.		Jan. to April	Mar. to June
Potatoes, Sweet	3 in.	3½ ft.	2 ft.	5 mos.			April and May	May and June
Pumpkin	½ in.	4 to 6 ft.	3 to hill	100 to 120 days	5 to 10 fruits	3 to 4 lbs.	April and May	May and July
Radish	½ in.	18 in.	1 to 4 in.	30 to 60 days	10 to 15 doz.	10 to 12 lbs.	Sept. to April	Mar. to Sept.
Rhubarb	gin.	3 ft.	3 ft.	60 days	6 doz. stalks	3 lbs.		Early spring
Rutabaga	1/2 1/8 in.	2 ft.	6 in.	90 to 100 days	50 to 60 roots	2 to 4 lbs.	Aug. and Sept.	May and June
Spinach	1/2 1/4-in.	18 in.	4 in.	60 days	50 to 60 plants	15 to 20 lbs.	Sept. to Feb.	Sept. or very early spring
Spinach, N. Zealand	1 in.	18 in.	3 in.	2 mos.				tarry opting
Squash) ¼(in.	4 to 6 ft.	3 to hill	100 to 120 days	2 doz. fruits, bushvar.	4 to 6 lbs.	Spring	April to July
Swiss Chard	½ in.	2 ft.	12 in.	90 to 100 days	20 plants	6 to 10 ozs.		-2
Tomato		3 to 4 ft.	3 ft.	100 to 120 days	15 to 20 lbs. per plant during season	2 ozs.	Dec. to Mar.	May to June
Turnip	1/8 in.	2 ft.	4 in.	60 to 80 days	60 to 80 roots	2 to 3 lbs.	Aug. to Oct.	April to Aug.
Watermelon	½ in.	6 ft.	4 to 6 ft.	3 to 4 mos.				

The time requirements for crops to reach edible size varies, of course, according to the seasons and varieties. Different soils also have a profound influence. A tomato, for instance, which in Southern New Jersey will mature in 90 days, may require from 100 to 110 days in sections further north having heavy clay soils. Allowance also must be made for the relative estimate of the yields, due to climatic and soil conditions. But the averages will be found to be fairly accurate on the basis of many years of observation.

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Bridgeton

New Jersey

Important SPRAYING Information



Manufacturers of insecticides and fungicides have scientifically prepared many sprays and dusts that have proved effective in the control and eradication of the numerous insects and fungus diseases that attack growing crops. These products are sold by the manufacturers under various trade names. In order to make it easier for the users of this Guide to ascertain which insecting cides or fungicides to use in combating or controlling a certain pest or disease, the following table is arranged, giving the names of products that have been found effective.

American Cyanamid & Chemical Corp., 30 Rocke-feller Plaza, New York, N. Y.

"Cyanogas"

"Cyanogas G-Fumigant"

Bayer-Semesan Company (Inc.), Wilmington, Del.

New Improved "Ceresan" 2% "Ceresan"

"Semesan Jr."

"Semesan" Bel"

"Nu-Green"

Special "Semesan"

The A. S. Boyle Co., Jersey City, N. J. "Ridz Garden Spray"

"Ded Nicotine Spray"

California Spray-Chemical Richmond, Calif.,

Elizabeth, N. J. "Ortho"

"Extrax" "Greenol"

"Nursery Volck"
"Garden Volck"
"Triox"

Hammond Paint & Chemical Co., Beacon, N. Y. "B-B Dust"

"Copper Solution"

"Formacide"

"Grape & Rose Dust"
"Liquid Slug Shot"

"Naptoside

"Pyrethrum Powder"
"Slug Shot Dust"

"Sodium Oleate"

"Stabilized Rotenone Dust"
"Thrip Juice Spray"
"Triad"

"Whale Oil Soap"

Dow Chemical Co., Midland, Mich.

The Dow Line

Kay-Fries Chemicals, Inc., New York, N. Y. "Nicotrol"

"Penetrol" — (spreader for arsenicals, Bordeaux and ground Derris)

The McCormick Sales Co.,

Baltimore, Md.

"Red Arrow Garden Spray"

"Special Red Arrow Garden
Spray"

"Black Arrow No. 5000" "McCormick Rotenone

Dust" "Rotenone Greenhouse

Spray" "Bee Brand Derris Powder"

"Bee Brand Flea Powder

"Bee Brand Insecticidal

Shampoo'

"Bee Brand Disinfectant"

"Bee Brand Household Insect Spray"

"Bee Brand Canary Lice

Powder'

Mechling Bros. Chemicals, Div. General Chemical Co., Philadelphia, Pa.

Filmfast"

"Hydroxcide"

"Japtox"

"Mechling's Scale Oil"

"Mechling's Arsenate of Lead"

"Mechling's Arsenate Cal-

cium" "Mechling's Bordeaux Mix-

"Mechling's Dritomic Sul-

phur" "Mechling's Lime Sulfur So-

lution" "Mechling's Paris Green"

"Nicotine Sulphate"
"Pyrote"

B. G. Pratt Company, New

York, N. Y.

"Scalecide"

"Sulfocide"

Tobacco By-Products & Chemical Corp.,

Louisville, Ky. "Black Leaf 40"

"Nico-Fume Liquid"

•	Disease or Insect	What to Use
Apple - 1	Codling Moth	Black Leaf 40; D-X combined with arsenate of lead; Mechling's Arsenate of Lead; Slug Shot Dust; Dow; Protex Colloidalized Arsenate of Lead.
Apple and Pear	San Jose Scale	Mechling's Scale Oil; Nicotrol; Scalecide; Dow; Semesan.
- 500	Scab	Mechling's Lime Sulfur Solution; Mechling's Dritomic Wettable Sulfur; Dow; Semesan.
	Wooly Aphis	Black Leaf 40; D-X; Liquid Slug Shot; Mechling's Nicotine Sulfate; Nicotrol; Pyrote; Penetrol; Thrip Juice Spray; Triad; Dow; Ridz Garden Spray; Ded Nicotine Spray; Protex Colloidalized Rotenone and Sulphur.
Asparagus	Asparagus Beetle	D-X; Liquid Slug Shot; One-Spot; Mechling's Rotenone 400; Pyrote; Slug Shot Dust; Red Arrow Garden Spray; Stabilized Rotenone Dust; Dow; Protex Colloidalized Sulphur and Rotenone; Protex Rotenone; McCormick Rotenone Dust. Calif. Spray Products.
	Rust	Copper Solution; Dow; Protex Colloidalized Red Copper Oxide.
Aster	Aphis	Black Leaf 40; D-X; Liquid Slug Shot; Mechling's Nicotine Suphate; Nicoloid; Red Arrow Garden Spray; McCormick Rotenone Dust; Nicotrol; O.K. Plant Spray; One-Spot; Pyroloid; Penetrol; Pyrote; Thrip Juice Spray; Triad; Dow; Ridz Garden Spray; Ded Nicotine Spray; Protex Colloidalized Sulphur and Rotenone; Protex Rotenone.
Aster	Aster Beetle	D-X; Liquid Slug Shot; Mechling's Arsenate of Lead; Mechling's Nicotine Sulfate; One Spot; Red Arrow Garden Spray; Pyrote; Slug Shot Dust; Stabilized Rotenone Dust; Dow; Protex Colloidalized Sulphur and Rotenone; McCormick Rotenone Dust.
	Rust Leafspot	Dritomic Wettable Sulfur; Sulfocide; Dow; Semesan.
	Aphis	Black Leaf 40; D-X; Liquid Slug Shot; Nicotrol; One-Spot; Penetrol; Pyrote; Red Arrow Garden Spray; Sulrote; Thrip Juice Spray; Triad; Dow; Ridz Garden Spray; Ded Nicotine Spray; Protex Colloidalized Sulphur and Rotenone; Protex Rotenone. Calif. Spray Products.
Beans	Mexican Bean Beetle	B-B Dust; D-X; Liquid Slug Shot; One-Spot; Pyrote; Slug Shot; Sulrote; Dow; Ridz Garden Spray; Protex Colloidalized Sulphur and Rotenone; Red Arrow Garden Spray; McCormick Rotenone Dust. Calif. Spray Products.
	Anthracnose, Powdery Mildew	Sulrote; Mechling's Bordeaux Mixture; Mechling's No. 20 Blight Dust; Sulfocide; Dow; Semesan. Calif. Spray Products.

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Greene, N. Y.

PAGE'S Seeds

	Disease or Insect	What to Use
	Leaf Spot	Sulrote; Dritomic Wettable Sulfur; Sulfocide; Dow; Semesan.
Beets	Beet Leaf Hopper	D-X; Liquid Slug Shot; Sulrote; Pyrote; Dow; Ridz Garden Spray; Ded Nicotine Spray Protex Colloidalized Sulphur and Rotenone; Protex Rotenone; McCormick Rotenone Dust Black Arrow No. 5000. Calif. Spray Products.
Cabbage, Cauli- flower, Brussels Sprouts, Turnip	Cabbage Worm	D-X; One-Spot; Penetrol; Pyrote; Slug Shot Dust; Mechling's Arsenate Calcium; Mechling' Rotenone 400; Stabilized Rotenone Dust; Sulrote; Dow; Ridz Garden Spray; Prote Colloidalized Sulphur and Colloidalized Rotenone; McCormick Rotenone Dust; Black Arrow No. 5000; Red Arrow Garden Spray. Calif, Spray Products.
Carrot Parsnip	Web Worm	Mechling's Arsenate of Lead; Dow; Protex Colloidalized Arsenate of Lead. Calif. Spra. Products.
G	Thrips	Black Leaf 40; D-X; Liquid Slug Shot; Nico-Fume Liquid; Nicotrol; Penetrol; Mechling' Nicotine Sulphate; Red Arrow Garden Spray; Black Arrow No. 5000; Pyrote; Sulrote; Thri Juice Spray; Dow; Ridz Garden Spray; Ded Nicotine Spray; Protex Colloidalized Sulphu and Rotenone; Protex Rotenone.
Carnation	Aphis	Black Leaf 40; D-X; Liquid Slug Shot; Mechling's Nicotine Sulfate; Nico-Fume Liquid Red Arrow Garden Spray; One-Spot; Pyrote; Thrip Juice Spray; Triad; Dow; Ridz Garder Spray; Ded Nicotine Spray; Protex Colloidalized Sulphur and Rotenone; Protex Rotenone
	Caterpillars	D-X and Arsenate of Lead; One-Spot; Mechling's Arsenate of Lead; Pyrote; Dow; Rid: Garden Spray; Protex Colloidalized Arsenate of Lead; Red Arrow Garden Spray. Cyanogas
Celery	Blight	Copper Solution; Grape & Rose Dust; Hydroxcide; Mechling's Bordeaux Mixture; Triad Dow; Semesan. Calif. Spray Products.
Celely	Tarnished Plant Bug	D-X; Mechling's Nicotine Sulfate; Pyrote; Dow; Protex Colloidalized Sulphur & Rotenone Protex Rotenone; Red Arrow Garden Spray. Calif. Spray Products.
Cherry	Rot	Dritomic Wettable Sulfur; Sulfocide; Dow; Semesan.
Cheffy	Curculio	D-X and Arsenate of Lead; Mechling's Arsenate of Lead; Penetrol; Dow; Protex Colloidalized Arsenate of Lead. Calif. Spray Products.
	Aphis	Black Leaf 40; D-X; Killogen; Liquid Slug Shot; Mechling's Nicotine Sulfate; Nico-Fume Liquid; Nicotrol; One-Spot; Penetrol; Pyrote; Thrip Juice Spray; Triad; Dow; Ridz Garden Spray; Ded Nicotine Spray; Protex Rotenone; Red Arrow Garden Spray. Cyanogas.
	Red Spider	D-X; One-Spot; Pyrote; Dow; Ridz Garden Spray; Protex Colloidalized Rotenone; Protex Colloidalized Sulphur & Rotenone; Rotenone Greenhouse Spray.
Chrysanthe- mum	Leaf Hopper	D-X; Mechling's Nicotine Sulfate; One-Spot; Pyrote; Dow; Ridz Garden Spray; Ded Nicotine Spray; McCormick Rotenone Dust.
	Thrips	Black Leaf 40; D-X; Liquid Slug Shot; Mechling's Nicotine Sulfate; Nico-Fume Liquid; McCormick Rotenone Dust; Nicotrol; Penetrol; Pyrote; Thrip Juice Spray; Dow; Ridz Garden Spray; Ded Nicotine Spray; Protex Colloidalized Sulphur; Protex Colloidalized Sulphur & Rotenone. Cyanogas.
	Wilt Mildew, Leaf Spot	Mechling's Dritomic Wettable Sulfur; Sulfocide; Dow; Protex Colloidalized Sulphur; Semesan.
Corn—Sweet	Ear Worm	D-X; Mechling's Arsenate of Lead; Slug Shot Dust; Dow: Protex Colloidalized Arsenate of Lead; Red Arrow Garden Spray; McCormick Rotenone Dust. Calif. Spray Products.
	Striped Beetle	D-X; Liquid Slug Shot; Mechling's Arsenate Calcium; One-Spot; Pyrote; Slug Shot Dust; Stabilized Rotenone Dust; Sulrote; Dow; Protex Rotenone; Protex Colloidalized Sulphur & Rotenone; McCormick Rotenone Dust; Red Arrow Garden Spray. Calif. Spray Products.
Cucumber	Aphis	Black Leaf 40; D-X; Liquid Slug Shot; Nicotrol; One-Spot; Penetrol; Pyrote; McCormick Rotenone Dust; Thrip Juice Spray; Triad; Dow; Ridz Garden Spray; Ded Nicotine Spray; Protex Rotenone; Protex Colloidalized Sulphur & Rotenone; Red Arrow Garden Spray.
	Anthracnose, Dewy Mildew, Melon Rust	Mechling's Bordeaux Mixture; Sulfocide; Dow; Semesan. Calif. Spray Products.
	San Jose Scale	Mechling's Lime Sulfur Solution; Penetrol; Scalecide; Dow; Semesan.
Currant	Worm	Black Leaf 40; D-X; Mechling's Rotenone 400; Slug Shot Dust; Dow; Protex Colloidalized Arsenate of Lead; Protex Rotenone.
	Aphis	Black Leaf 40; D-X; Liquid Slug Shot; Mechling's Nicotine Sulfate; Nico-Fume Liquid; Protex Rotenone; Protex Colloidalized Sulphur & Rotenone; Nicotrol; One-Spot; Penetrol; Pyrote; Thrip Juice Spray; Triad; Dow; Ridz Garden Spray; Ded Nicotine Spray; Red Arrow Garden Spray.
	Beetles	D-X; Mechling's Arsenate of Lead; Mechling's Rotenone 400; Dow; Protex Rotenone; Protex Colloidalized Sulphur & Rotenone; Red Arrow Garden Spray.
	Tarnished Plant Bug	D-X; Liquid Slug Shot; Mechling's Nicotine Sulfate; Pyrote; Slug Shot Dust; Dow; Protex Rotenone; Protex Colloidalized Sulphur & Rotenone; Red Arrow Garden Spray.
	Red Spider	D-X; Pyrote; Dow; Ridz Garden Spray; Protex Rotenone; Protex Colloidalized Sulphur & Rotenone; McCormick Rotenone Dust; Rotenone Greenhouse Spray.
	Leaf Hopper	Mechling's Nicotine Sulfate; Pyrote; Dow; Ridz Garden Spray; Ded Nicotine Spray; Protex Rotenone; Protex Colloidalized Sulphur & Rotenone; Red Arrow Garden Spray.
	Thrtps	Black Leaf 40; D-X; Liquid Slug Shot; Mechling's Nicotine Sulfate; Nicotrol; Penetrol; Pyrote; Thrip Juice Spray; Dow; Ridz Garden Spray; Ded Nicotine Spray; Protex Rotenone; Protex Colloidalized Sulphur & Rotenone; Red Arrow Garden Spray.
	Mildew	Dritomic Wettable Sulfur; Sulfocide; Dow; Protex Colloidalized Sulphur; Semesan.
	Mealy Bug	D-X; Liquid Slug Shot; Nicotrol; One-Spot; Pyrote; Dow; Ridz Garden Spray; Protex Rotenone; Protex Colloidalized Sulphur & Rotenone; Red Arrow Garden Spray. Cyanogas.
Ferns	White Fly	D-X; Pyrote; Thrip Juice Spray; Dow; Ridz Garden Spray; Protex Rotenone; Protex Colloidalized Sulphur & Rotenone; Protex Colloidalized Sulphur; Red Arrow Garden Spray; Black Arrow No. 5000. Cyanogas.
	Aphis	Black Leaf 40; D-X; Liquid Slug Shot; Mechling's Nicotine Sulfate; Nico-Fume Liquid; Red Arrow Garden Spray; Nicotrol; One-Spot; Penetrol; Pyrote; Thrip Juice Spray; Triad; Dow; Ridz Garden Spray; Ded Nicotine Spray; Protex Rotenone; Protex Colloidalized Sulphur & Rotenone. Cyanogas.
	Mildew	Copper Solution; Dritomic Wettable Sulfur; Grape & Rose Dust; Sulfocide; Triad; Dow; Semesan.
Gooseberry	Worm	D-X and Arsenate of Lead; Slug Shot Dust; Mechling's Rotenone 400; Dow; Protex Rotenone; Protex Colloidalized Arsenate of Lead.
	Aphids	D-X; Liquid Slug Shot; Nico-Fume Liquid; Nicotrol; One-Spot; Penetrol; Pyrote. Thrip Juice Spray; McCormick Rotenone Dust; Triad; Dow; Ridz Garden Spray; Ded Nicotine Spray; Protex Rotenone; Protex Colloidalized Sulphur & Rotenone. Calif. Spray Products.
ettuce	Mildew	Copper Solution; Grape & Rose Dust; Hydroxcide; Liquid Slug Shot: Triad: Dow: Semesan
		Calif. Spray Products. Hydroxcide; Dow; Protex Colloidalized Red Copper Oxide; Semesan.



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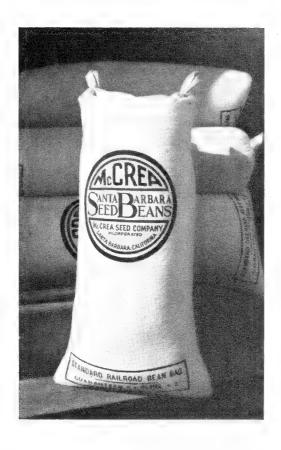
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	Disease or Insect	What to Use
Nasturtium	Aphis	Black Leaf 40; D-X; Liquid Slug Shot; Mechling's Nicotine Sulfate; Nico-Fume Liquid Red Arrow Garden Spray; McCormick Rotenone Dust; Nicotrol; One-Spot; Penetrol Pyrote; Thrip Juice Spray; Triad; Dow; Protex Rotenone; Protex Colloidalized Sulphus & Rotenone. Cyanogas.
Onion	Thrips	Black Leaf 40; D-X; Mechling's Nicotine Sulfate; Naptoside; Nico-Fume Liquid; Nicotrol Penetrol; Pyrote; Dow; Protex Rotenone; Protex Colloidalized Sulphur & Rotenone; Bee Brand Derris Powder. Calif. Spray Products.
	Blight	Copper Solution; Grape & Rose Dust; Mechling's Bordeaux Mixture; Triad; Dow; Semesan Calif. Spray Products.
Peas	Aphids	Black Leaf 40; D-X; Liquid Slug Shot; Mechling's Rotenone 400; Nico-Fume Liquid Nicotrol; One-Spot; Penetrol; Pyrote; Thrip Juice Spray; Triad; Dow; Protex Rotenone Bee Brand Derris Powder. Calif. Spray Products.
	Rot	Dritomic Wettable Sulfur; Sulfocide; Dow; Semesan.
Plum	Curculio	D-X and Arsenate of Lead; Mechling's Arsenate of Lead; Penetrol; Dow; Protex Colloidalized Arsenate of Lead.
	Early Blight	Copper Solution; Grape & Rose Dust; Hydroxcide; Triad; Dow; Semesan, Calif. Spray Products.
Potato	Late Blight	Copper Solution; Grape & Rose Dust; Hydrocide; Dow; Semesan.
	Potato Bugs	Hydroxcide; Insectogen; Mechling's Paris Green; One-Spot; Penetrol; Slug Shot Dust; Dow; Protex Colloidalized Sulphur & Rotenone. Calif. Spray Products.
	Cabbage Worm	D-X; Liquid Slug Shot; Mechling's Arsenate Calcium; One-Spot; Penetrol; Pyrote; Slug Shot Dust; Dow; Protex Colloidalized Arsenate of Lead; McCormick Rotenone Dust; Black Arrow No. 5000; Red Arrow Garden Spray. Calif. Spray Products.
Radish	Harlequin Bug	D-X; Liquid Slug Shot; Mechling's Nicotine Sulfate; Dow; Protex Colloidalized Sulphur & Rotenone; McCormick Rotenone Dust; Black Arrow No. 5000; Red Arrow Garden Spray.
	Aphids	Black Leaf 40; D-X; Liquid Slug Shot; Nico-Fume Liquid; Nicotrol; One-Spot; Penetrol; McCormick Rotenone Dust; Black Arrow No. 5000; Red Arrow Garden Spray; Pyrote; Thrip Juice Spray; Triad; Dow; Protex Rotenone; Protex Colloidalized Sulphur & Rotenone. Calif. Spray Products.
	Red Spider	Dritomic Wettable Sulfur; D-X; Liquid Slug Shot; One-Spot; Pyrote; Thrip Juice Spray; Red Arrow Garden Spray; Bee Brand Derris Powder; Rotenone Greenhouse Spray; Dow; Protex Rotenone; Protex Colloidalized Sulphur & Rotenone. Calif. Spray Products.
	Aphis	Black Leaf 40; D-X; Liquid Slug Shot; Mechling's Nicotine Sulfate; Nico-Fume Liquid; Red Arrow Garden Spray; Nicotrol; One-Spot; Penetrol; Pyrote; Thrip Juice Spray; Triad; Dow; Protex Rotenone; Protex Colloidalized Sulphur & Rotenone.
Roses	Brown Canker Black Spot Mildew	Mechling's Bordeaux Mixture; Scalecide; Sulfocide; Dow; Semesan. Calif. Spray Products.
	Leaf Roller	Liquid Slug Shot; Mechling's Rotenone 400; Thrip Juice Spray; Dow; Protex Colloidalized Sulphur & Rotenone; Special Red Arrow. Calif. Spray Products.
	Beetles	D-X and Arsenate of Lead; Liquid Slug Shot; Mechling's Arsenate Lead; One-Spot; Red Arrow Garden Spray; Pyrote; Slug Shot Dust; Stabilized Rotenone Dust; Dow; Protex Colloidalized Arsenate of Lead; Protex Colloidalized Sulphur & Rotenone.
	Slugs	D-X; Pyrote; Dow; Protex Colloidalized Sulphur & Rotenone; Protex Rotenone; Red Arrow Garden Spray; Black Arrow No. 5000. Calif. Spray Products.
	Flea Beetle	D-X; Mechling's Rotenone 400; One-Spot; Slug Shot; Stabilized Rotenone Dust; Dow; Protex Rotenone. Calif. Spray Products.
Spinach	Aphids	D-X; Liquid Slug Shot; Nico-Fume Liquid; Nicotrol; One-Spot; Penetrol; Pyrote; Thrip Juice Spray; Dow; Protex Colloidalized Sulphur & Rotenone; Protex Rotenone.
	Leaf Miner	Liquid Slug Shot; Mechling's Nicotine Sulfate; Dow; Protex Colloidalized Sulphur & Rotenone. Calif. Spray Products.
		D-X; Liquid Slug Shot; Mechling's Rotenone 400; One-Spot; Slug Shot Dust; Stabilized Rotenone Dust; Red Arrow Garden Spray; McCormick Rotenone Dust; Dow; Protex Colloidalized Sulphur & Rotenone; Protex Rotenone; Protex Colloidalized Sulphur.
Squash	Squash Bug	D-X; Liquid Slug Shot; One-Spot; Pyrote; Dow; Protex Collidalized Sulphur & Rotenone; Protex Rotenone; Protex Colloidalized Sulphur; Red Arrow Garden Spray; McCormick Rotenone Dust. Calif. Spray Products. Cyanogas.
	Squash Vine Borer	Black Leaf 40; Liquid Slug Shot; Dow; Protex Colloidalized Sulphur & Rotenone; Protex Rotenone; Protex Colloidalized Sulphur; McCormick Rotenone Dust. Calif. Spray Products. phur and Rotenone. Calif. Spray Products.
Sweet Pea	Aphis	Black Leaf 40; D-X; Liquid Slug Shot; Nico-Fume Liquid; Nicotrol; Red Arrow Garden Spray; Bee Brand Derris Powder; McCormick Rotenone Dust; One-Spot; Penetrol; Pyrote; Thrip Juice Spray; Triad; Dow; Protex Colloidalized Sulphur; Protex Colloidalized Sulphur and Rotenone. Calif. Spray Products.
	Mildew Blight	Mechling's Bordeaux Mixture; Dow; Semesan. Calif. Spray Products.
	Anthrocnose	Mechling's Bordeaux Mixture; Thrip Juice; Dow; Semesan.
	Flea Beetle	Mechling's Bordeaux Mixture; Dow; Protex Colloidalized Red Copper Oxide; McCormick Rotenone Dust. Calif. Spray Products.
Comato	Horn Worm	D-X and Arsenate of Lead; Mechling's Arsenate Lead; Dow; Protex Colloidalized Arsenate of Lead. Calif. Spray Products.
	1	Copper Solution; Mechling's Bordeaux Mixture; Sulfocide; Dow; Protex Colloidalized Red Copper Oxide. Calif. Spray Products.
	Tomato Worm	D-X and Arsenate of Lead; Liquid Slug Shot; Mechling's Arsenate Calcium; Slug Shot Dust; Red Arrow Garden Spray; McCormick Rotenone Dust; Sulrote; Dow; Protex Colloidalized Arsenate of Lead; Protex Colloidalized Sulphur & Rotenone. Calif. Spray Products.
Watermelon and		Black Leaf 40; D-X; Liquid Slug Shot; Mechling's Nicotine Sulfate; Nicotrol; McCormick Rotenone Dust; Red Arrow Garden Spray; Penetrol; Pyrote; Thrip Juice Spray; Triad; Dow; Protex Rotenone; Protex Colloidalized Sulphur & Rotenone. Calif. Spray Products.
Muskmelon		One-Spot; Pyrote; Slug Shot Dust; Stabilized Rotenone Dust; Dow; Protex Colloidalized Sulphur & Rotenone; Protex Rotenone; McCormick Rotenone Dust, Calif. Spray Products.
	Anthrocnose	Liquid Slug Shot; Mechling's Bordeaux Mixture; Thrip Juice; Dow; Semesan. Calif. Spray Products.



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FIELD AND GRASS SEED INFORMATION

This information is made possible through the courtesy of Joe Bohl, Manager, The Chas. H. Lilly Co., Seattle, Washington, who has spent much time in its gathering and assembly.

	Lilly (Co., Seattle, Wash	ington,	who has spent much	time in its gatherin	g and assembly.
CROP	Botanical Name	Principal Uses	Avera Heigh Inche	t Soil Adaptations	Life	General Information
ALFALFA	Medicago sativa	Seed, Hay, Pasture	20 to 3	Fertile, deep, well drained loam	Long-lived perenni	Best if seeded without nurse crop. Needs firm, fine seedbed
ARTICHOKES, Jerusalem	Helianthus tuberosus	Winter succulence	72 to 9		Annual	Cut for hay when 1/4 to 1/2 in bloom. Keep free of weed Plant during April or early May, 5 inches deep in rows 3
BENT GRASSES-						to 42 inches apart, with plants 18 to 24 inches apart.
ASTORIA	Agrostis tenuis. Astoriana	Seed, Lawn, Pastur	e 16 to 2	Moist, fertile, heavy soi	ls Long-lived perennis	More versatile than Seaside Bent. Thrives better on upland but must have firm soil and abundant moisture
DOMESTIC Mixed	Agrostis spp.	Lawn, Pasture	16 to 2	Moist, fertile, heavy soi	le Long-lived perennis	Post of the Post of the second
HIGHLAND	Agrostis tenuis. Oregonensis	Seed, Lawn, Pastur	e 10 to 18		Long-lived perennia	Grows well on poor, thin soil. Withstands long periods of
(Rhode Island)	Agrostis tenuis	Lawn, Pasture	16 to 24	Moist, heavy, slightly	Long-lived perennis	Does not spread by rootstalks like other Bents Good
SEASIDE	Agrostis maritima	Seed, Lawn, Pastur	e 12 to 20		Long-lived perennis	Adapted to pasture mixtures on moist, slightly acid lands
BLUEGRASSES-				slightly acid	-	Suffers greatly from drought.
BULBOUS	Poa bulbosa	Winter Pasture, Hay, Seed	8 to 16	Fertile, well-drained		Grows during winter and early spring. Dormant in summer
CANADA	Poa compressa	Pasture	12 to 20		Long-lived perennia	Grows well with Alfalfa; used mostly on shallow rocky soi Withstands drought, cold and close grazing. Thrives at hig
KENTUCKY	Pos pratensis	Seed, Lawn, Pastur	e 18 to 30	Fertile, moist soils of low acidity	Long-lived perennia	Very nutritious. Relished by all livestock, Improves with
SHADY (Wood Meadow Grass)	Poa nemoralis	Shady Lawns, Shady Pasture	18 to 24	Fertile, moist, shaded	Long-lived perennia	Does not endure intense sunshine and drought. Thrives her
SHADY (Rough- Stalked Meadow)	Poa trivialis	Shady Lawns, Shady Pasture	18 to 24	Fertile, moist, shaded	-	on shaded or semi-shaded lands.
BROMEGRASS, Smooth	Bromus inermis	Hay, Pasture		80118	Long-lived perennia	on shaded lands that are moist and fertile.
BUCKWHEAT	Fagopyram. esculentum	Seed, Green	20 to 30		Long-lived perennia	reet. Not adapted to coast region.
CEREALS—		Manure	24 to 36	Wide adaptation	Annual	Good green manure crop. Sometimes used as smother crop for weeds. Good catch crop and bee pasture.
BARLEY, Winter	Hordeum vulgare, I row	Seed, Hay	30 to 40	Loams and alarm	Winter 4	Grown mainly as a grain crop. Used for feed and malting
BARLEY, Spring	Hordeum distichon, 2 row Hordeum vulgare, i row Hordeum distichon, 2 row	Seed, Hay	30 to 40		Winter Annual	Best nurse crop for starting red clover. Grown mainly as a grain crop. Used for feed and malting
OATS, Winter	Avens sativa	Seed, Hay	·		Annual	The beardless varieties make good hay.
OATS, Spring	Avena sativa	Seed, Hay		Moist clay loams	Winter Annual	Grown for grain and companion crop for vining legumes. Good yielder for forage and grain.
RYE, Winter	Avena byzantine, Red	-	1	Moist clay loams	Annual	Grown for grain, forage and companion crop. Good yielder.
RYE, Spring	Secale cereale	Seed, Hay, Pasture	36 to 72	adaptation	Winter Annual	Best grain and forage crop for light dry soils. Lodges badly on fertile moist soils.
WHEAT, Winter	Secale cereale Triticum vulgare, common	Seed, Hay, Pasture	36 to 60	Moderate drainage, wide adaptation	Annual	Best grain and forage crop for light dry soils. Lodges badly on fertile moist soils.
	Triticum compactum, clul	Deed, 11ay	36 to 60	Bench and bottom lands	Winter Annual	Standard grain crop for fertile lands. Used as a hay crop in some areas, but most profitable as a grain crop.
WHEAT, Spring	Triticum vulgare, common Triticum compactum, clul	Seed, Hay	36 to 60	Bench and bottom lands	Annual	Standard grain crop for fertile lands. Used as a hay crop in some areas, but most profitable as a grain crop.
CHEAT OR CHESS	Bromus secalinus	Seed, Hay	24 to 48	Poor lowlands, waste places	Winter Annual	Makes good horse hay on wet acid soils. Sometimes smuts badly.
CLOVERS—						
ALSIKE	Trifolium hybridum	Seed, Hay	18 to 30	Fertile, acid lowlands	Short-lived perennial	Thrives best where cool and moist. Endures poor drainage Medium long-lived on suitable soil.
LADINO	Trifolium repens latum	Seed, Pasture	10 to 14	Moist, fertile soils	Short-lived perennial	Shallow rooted. Requires abundant moisture and fertility in surface soil. Very close grazing is injurious.
WHITE	Trifolium repens	Seed, Pasture	4 to 8	Moist, fertile soils	Short-lived perennial	A good pasture plant, especially in mixtures. Long season and long-lived on fertile, moist soil.
RED	Trifolium pratense	Seed, Hay, Pasture	20 to 28	Well drained, fertile soils	Short-lived perennial	Widely grown legume for forage and seed. Adented to short
MAMMOTH RED	Trifolium pratense	Hay, Pasture	24 to 48	Fertile uplands, mod- erately moist	Biennial	rotations. Requires an abundance of lime. Two weeks later than medium red clover. Produces but one
SWEET, Yellow	Melilotus officinalis	Hay, Pasture, Green Manure	24 to 48	Light to medium soils	Biennial	Better adapted to pasture than white blossom sweet Clover
SWEET, White	Melilotus alba	Seed, Pasture, Hay, Green Manure	48 to 84	of low acidity Light to medium soils	Biennial	Does not thrive on acid soils. Firm seed bed required. Quite tolerant of Alkali. More
CRIMSON	Trifolium incarnatum	Seed, Green Manure	24 to 48	Well drained, fertile	Biennial	drought resistant than alfalfa. A good soil improver. Seed shatters easily and careful har-
STRAWBERRY	Trifolium fragiferum	Alkali Pastures	4 to 8	Moist alkali soils		vesting is necessary. Makes good summer pasture. Most alkali tolerant of all legumes. Makes creeping growth.
CORN, Field	Zea mays	Silage, Grain, Green Feed	72 to 96	Fertile loams or clays.	Long-lived perennial	Adapted only where moisture is abundant.
CRESTED DOGS- TAIL	Cynosurus cristatus	Pasture		well drained Cool, moist, fertile	Annual	Successful only as cultivated crop. Good silage. Early maturing varieties for Pacific Northwest.
CRESTED WHEAT- GRASS	Agropyron cristatum	Seed, Pasture	10 to 18	soils	Long-lived perennial	Unimportant as a general farm grass. Adapted to shady places. Used some in shady lawns.
FESCUES—	- Ingropyrou cristatum		16 to 30	Dry lands	Long-lived perennial	Excellent dry land grass for arid regions. A heavy seed producer.
CHEWING'S	Festuca rubra fallax	Seed, Lawn, Pasture	12 to 20	Well drained, fertile		
CREEPING RED	Festuca rubra	Lawn, Pasture	8 to 16	benches Well drained, fertile	Long-lived perennial	Very fine leaved, makes dense bottom growth—good lawn grass. Quite drought resistant.
MEADOW	Festuca elatior pratensis	Hay, Pasture	24 to 36	benches	Long-lived perennial	Adapted to lawn and pasture use on shady, moist soils of abundant fertility.
TALL	Festuca elatior	Seed. Hav. Pasture		Moist meadowlands		Starts in early spring and persists until late fall. Cold resistant.
FLAX, Fiber		Fiber	24 to 40	Wide soil adaptation	Long-lived perennial	Grows from early spring to late fall. Particularly good for summer pasture.
FLAX, Seed	Linum usitatissimum		24 to 36	Fertile clay loams	Annual	Requires clean land—its sparse leaf growth does not check weeds. Grown for fiber and seed.
CALE, 1000 Headed	Linum usitatissimum	Seed	18 to 30	Fertile clay loams	Annual	Requires clean, weed-free land. Grown for seed only.
	Brassica oleracea acephala	Winter succulence	20 to 30			Start plants in seed bed. Transplant in early June. Ready for feeding after August 15th. Winter hardy.
MEADOW FOXTAIL	Alopecurus pratensis	Seed Pasture	15 to 30	Low, poorly drained lands	Long-lived perennial	Excellent pasture on periodically submerged lands Seed
MILLETS—	CI . II .					hand stripped—ripens unevenly and shatters readily.
FOXTAIL	Chaetochloa italica	Hay, Seed	18 to 24	Warm, fertile loams	Annua!	Best Millet for hay. Matures in 75 to 90 days. Best if cut before seed matures. Plant when soil is warm.
JAPANESE	Echinochlos frumentaces	Pasture, Green Feed	30 to 48	Loams and shot clays in coastal areas	Annual	Especially adapted to the coastal for belt. Vields large ton-
PROSO or HOG	Panicum miliaceum	Seed, Green Feed	18 to 36			nage of green feed. Difficult to cure for hay. Seed when soil is warm. Rapid grower—matures in 70 to 90
RCHARD GRASS	Dactylis glomerata	Seed, Hay, Pasture	30 to 42	Well drained soils		days. Yields heavy seed crop.
EAS, FIELD—						drainage. Withstands dry summers.
WINTER, Austrian	Pisum arvense	Seed, Hay, Silage	36 to 54	Clay loams and bottom lands	Winter Annual	Best adapted for fall planting. Grown chiefly as a seed crop for shipment to the South.
						HIE NUIDMENT to the Nouth
EDDING C	Pisum arvense	Seed, Hay, Pasture, Silage	24 to 48	Well drained clay and loam soil	Annual	Suited to many heavy soils which are well supplied with moisture. A good cash crop,

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CROP	Botanical Name	Principal Uses	Average Height Inches	Soil Adaptations	Life	General Information
RAPE	Brassica napus	Seed, Pasture	6 to 12	Fertile loams and bottoms	Biennial	Good pasture for hogs and sheep. A dependable source o midsummer green feed in many districts.
REDTOP	Agrostis alba	Hay, Pasture	20 to 30	Wet lands	Long-lived perennial	Most widely adapted of tame grasses. Thrives on wet acid
REED CANARY GRASS	Phalaris arundinacea	Seed, Hay, Pasture	.48 to 80	Swampy or bottom	Long-lived perennial	Not adapted to mixtures. Suitable for permanent pasture or wet lands. Develops heavy seed.
ROOT CROPS-			1			wet tands. Develops heavy seed.
CARROTS	Daucus carota	Winter succulence		Fertile, moist bottom lands	Biennial	Yields less than other common root crops. Keeps well in storage, can be left in the ground until late in the fall.
MANGELS	Beta vulgaris	Winter succulence		Fertile, moist bottom lands	Biennial	Heavy yields, especially after liberal manuring. Keeps well in storage. Must be taken up before frost.
RUTABAGAS	Brassica campestris	Winter succulence		Fertile, moist bottom lands	Biennial	Higher yielder than mangels. Adapted to coast regions Manure increases yield. Good for storage.
TURNIPS	Brassica rapa	Winter succulence		Fertile, moist bottom lands	Biennial	Highest yielder of all common root crops. For fall feeding. Does not keep well in storage.
RYE-GRASSES— DOMESTIC.	-					- voo zoo zoop woss in boorage.
Oregon	Lolium multiflorum	Seed, Hay, Pasture	18 to 36	Low lands, poor drainage	Winter Annual	A rapid growing forage crop. Good for spring pasture and seed.
ITALIAN	Lolium multiflorum	Seed, Hay, Pasture	18 to 36	Low lands, poor drainage	Biennial or Short- lived perennial	Fall planted—makes heavy forage growth and recovers rapidly after cutting.
PACEY'S PERENNIAL.	Lolium perenne	Lawn, Hay, Pasture	15 to 20	Low lands, poor drainage	Short-lived perennial	Little used on farms, but important in some sections for winter lawns.
English	Lolium perenne	Seed, Hay, Pasture	15 to 24	Low lands, poor drainage	Short-lived perennial	Longest-lived of rye grasses, and better suited to use in hay and pasture mixtures.
SORGHUM	Andropogon sorghum	Fodder, Green Feed	48 to 72	Warm, deep, fertile loams	Annual	Requires warm soil and warm growing season. Row culture necessary in Pacific Northwest.
SOYBEAN	Soja max	Seed, Hay, Green Feed	12 to 48	Warm, fertile loams	Annual	Not suited to the coast regions, but a satisfactory crop on some warm, fertile soils,
SUDAN GRASS	Andropogon sudanensis	Hay, Pasture	36 to 80	Warm clay loams	Annual	Thrives best if planted when the soil is warm. Reaches hay stage in 75 to 80 days. Good yielder.
SULLA	Hedysarum coronarium	Green Feed	20 to 30	Well drained soils	Perennial	Adaptability not yet fully determined. Plant as soon as frost danger is over.
SUNFLOWER SWEET VERNAL	Helianthus annuus	Silage, Green Feed	72 to 96	Clay loams	Annual	Chiefly a silage crop. Endures more cold than corn. Thrives on the Coast. Seeded early in May.
GRASS TALL MEADOW	Anthoxanthum odoratum	Hill-land Pasture	12 to 24	Well drained uplands	Perennial	Starts growth early in spring—makes tough sod. Thrives in the shade of brush and ferns.
OAT-GRASS	Arrhenatherum elatius	Seed, Hay, Pasture	36 to 60	Fertile, well drained uplands	Long-lived perennial	Does not endure shade. Makes good early and late pasture. Cut early for good quality hay.
TIMOTHY VELVET GRASS or	Phleum pratense	Seed, Hay, Pasture	30 to 48	Fertile, moist, medium to heavy soils	Short-lived perennial	Well adapted to use in pasture and meadow mixtures. Responds well to fertilizer.
MESQUITE	Holcus lanatus	Seed, Hay, Pasture	20 to 36	Wide adaptation	Perennial	Recommended only for soils too light for better grasses.
VETCHES—						
COMMON or GRAY HAIRY or	Vicia sativa	Seed, Silage, Hay, Green Feed	36 to 60	Well drained, fertile loams	Winter Annual	A spring vetch but commonly fall seeded in Pacific Northwest. Best to seed with grain for support.
WINTER	Vicia villosa	Green Manure, Seed, Pasture	36 to 60	Wide adaptation, needs good drainage	Winter Annual	Very winter-hardy. Seed shatters readily when ripe.
HUNGARIAN	Vicia pannonica	Green Manure, Hay, Seed	30 to 40	Medium wet, acid soils	Winter Annual	Less viny than common vetch. Greater winter-hardiness and aphis resistance, suited to poorly drained soils.
PURPLE	Vicia atropurpurea	Seed, Green Manure	24 to 48	Well drained clays or loams	Annual	Lacks winter hardiness. Often spring seeded. Makes heavy growth during cool early spring weather.
AAY MIXTURES		Hay	20 to 40	Fertile clays, loams and bottom lands	Mostly perennials	Mixtures make good farm hay. Adapted to varied soils and climates.
MIXTURES		Pasture	0. 00	Widely adapted	Mostly perennials	Especially desirable on new clearings and togged-off land

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LARGE MODERN SEED CLEANING PLANTS ESTABLISHED IN SIX MAIN SEED DISTRICTS

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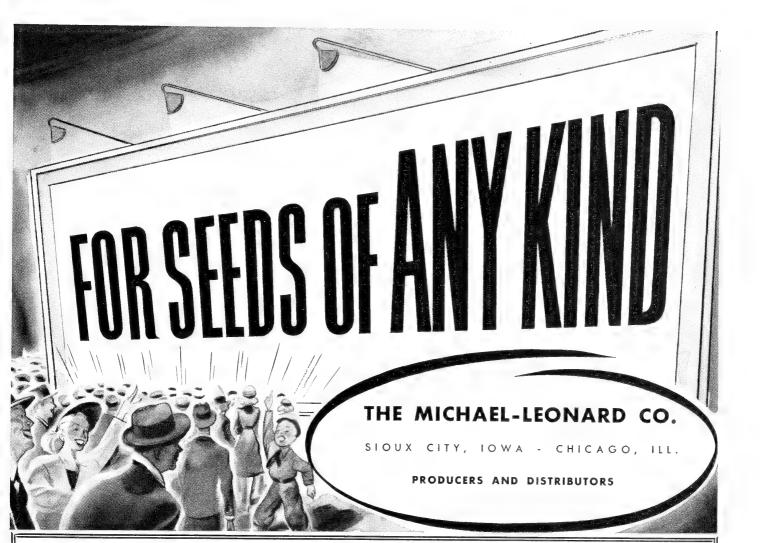
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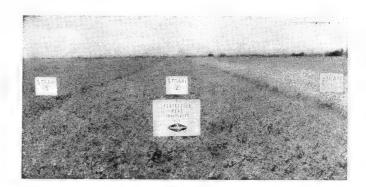
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	VEGETABLE	TAE		SEED	9	RMIL	ERMINATION		STANDARDS	DAR	-80	-MI	MINIMUM		PERCENTAGE	ENT	AGE			
	Ala. 1942	Ariz. 1941	Fed Seed Act # Interstate Regulation	Fla. 1941	Ga. ^D 1942	111.	Mass. \$	Mich. 1942	Mo.°	N. C. 1941	Ohio 1940	Ore.†	S. C. 1940	S. D.	Texas [⊕] 1941	Va. 1940	Wash. 1941	W.Va.	Wis. 1941	Can.; 1938
ArtichokeAsparagus	09*	60 *70	09 *70	09*	09*	09 *70	09*	09	09	*	09 *		09	09			09	09	98	75
Bean, Large Lima	20	80 70	80 70	80 70	80	80	80	80	80	208	80	80	80	08.0	82	80	080	080	086	80
Bean, Small Lima Bean, Fordhook	20	20	20	20	70	70	:	75		70	20.	80	75	2 :		 08	20,	0.7	70	: :
Beet	65	65	65	65	65	65	65:	65		65	65	70	65	65		65	65	65	65	65
Brussels Sprout	70.	202	0.25	202	202	201	02	202		20.	75	75	7.5	75		75	75	75	75	7.5 80
Caraway	C ::	C :	c :	c :	c :	s: ;	.:	65		75	75	08	75	75		75	7.5	7.5	75	80
Cauliflower	55 75	75	75	55	52	52 75	55.	55		55	55	65	. 25. 12.	65		. 100 t-	. 15. 1	1 24 .	. 23.	: 10:1
Celeriac	55	55.55	53	S I	N I	SS	Sign	525		32.5	55	38	55	55		55	55	55	55	55.5
Chard, Swiss	65	65	65	65	65	65	65	55				90	55 65	55 65	55	55 65	55	55	55	55
Citron	65	65	65	65	65		 62			65	65	75	65	65		:	65	65	75	121
Collard	75	75	80	80	80	80	80	80		808 22	80	080	80	80	808	80	08	. 80	80	C : S
Cress, Curled	40	40	: : 9	40	40	2 : 0	40	39		40	c :	 no :	c :	-04 40		c :	S :		75	80 75
Cress, Water	25	25	25	25	25	40 25	25	30		2.5	25	:	40 55	- 50			40	:	40	· ·
Cucumber Dandelion	80 45	80 45	80 45	80	80	80	80	80		808	08 4	80	80	 08		80	80	08	 80 80	75
Dill. Eggplant	:09	: 09	: 09	:09	99	: 09	: 9	:09			F : 9	:00	£ : (: : (:09			\$ 00 00	. 09	: :
Endive Salad)	0,7	70	0,2	202	829	228		70				75	200	70			09 20 20		92	65 75
Kale	122	125	25.	75	75	75		70				:08	70				70	70	ν·	
Kohl Kabi Leek	60	72 60		60	75	75		75		_		75	22				22	73.	52.	08
Lettuce	80	80	80	80.	28.2	80	808	88.5	88:	88:	808	22.5	000		75		 09 80	9 08	 09 80	75 80
Melon, Honey Dew.	122	75	3 : 1	3 ::	c ::	c :						 0s :	75				75	7.5	75	75
Mustard	75	75	75	70	70	75						75	70				70	70	20.	:2:
Okra.	20	20 2	*50	*50	50	*50	~	*				9:	20				20	20	50	S:
Parsley.	99	299	288	289		299						65	29				2,09	28	02 09	75
Pea	 3 &	3 8	8 8	 2	200	2 S						65	09				098	 888	898	55
Pepper	55 7	25. 75.	55 7	55	55	55				_		39	55				55	80 55	80 55	80 65
Radish	75	75	75	75	75	75						× 22 83.72	75				75	75	75	120
Khubarb	22	00	60	60 75	60 75	09	60		09	09	09		99	09			96	. 92	09	00
Salsify	75	75	75	75	60	75						3:5	7. C				C :1	200	C ::	09 09
Savory	: 5	: (: (• (• (_			2 :	c :	n .	c/		5	200	75	75
Spinach	89	30	38	 3 9	39	99	- 88	: 09		99	99	- 02	09		. : 9	: :9	: 09	888	: :	3 ::
Spinach, New Zealand Squash	75	75	40	40	40	40	40						40				40 40	96	00 40	65
Tomato.	22.	75	52.5	223	75	75	75	75	22		75	75	7.75	7.5	75	75	75	75	75	. 17:
Turnip.	20.08	20	20	20	20	20	50						50		2 :		50	50	C :	c/ ::
				200	-	20	00	-	-	-	-	80	80	-	-	_	80	- 08	- 08	80

 [‡]Canada—Chervil 75%, Chives 75%, Mangel 65%, Sage 55%, Savory 55%, Vegetable Marrow 75% "Georgia—Cardoon 60%.

Massachusetts—Chinese Cabbage 75%.

[#]Federal Seed Act—Chinese Cabbage 75%, Pak-choi 75%, Spinach Mustard 75%, Vegetable Mustard 75%.

[°]Missouri Pak-choi 75%, Chinese Cabbage 75%, Spinach Mustard 75%, Vegetable Mustard 75%.

[†]Oregon—Celery Cabbage 75%.

†Oregon—Celery Cabbage 75%.

©Texas—Sweet Fennel 60%.

†W. Virginia—Bean, Pole 80%, Cardoon 60%, Sweet Basil 50%, Sweet Fennel 60%, Sweet Marjoram 65%, Thyme 60%.

*Including Hard Seeds.

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EAST WALPOLE, MASS.

Seed Germination Table Prepared by Agricultural Markeling Administration, U. S. Department of Agriculture, Washington, D. C.

Name of seed	Sub- strata		First	Final count		Name of seed		rb- ata l Ter per tur	a- F1	rst F	
Alfalfa-Medicago sativa	B, S	° C.	Days 3	Days		Millet:	_			ays L	Days
Bahia grass-Paspalum notatum	P	30-35	3	21	Light at 30° C. Re-			B 20-		4	14
					move all glumes with aid of sharp scalpel.	or Golden-Setaria italiea	2	3 20-	30	4	10
					Fresh seed lightly, scratch surface of car-	galli frumentacea	8- I	3 20-	30	4	10
Barley—Hordeum vulgare	m a				yopsis and use potas- sium nitrate.	Proso-Panicum miliaceum	. I			3 3	7 7
		20	3	7	Fresh seed prechill 5 days at 5° or 10° C.	Molasses grass-Melinia minutiflor	a F	20-3	30	7	21 Light.
Bean, Adzuki—Phaseolus angularts Bean, field—Phaseolus vulgaris	R, S	20-30 20-30	5	10		pureum. Oats—Avena sativa			.		10
Bean, velvet-Stizolobium utile Bean, Mung-Phaseolus aureus	R, S	20-30	3 3	14			1	S 2		4	10 Fresh seed prechill for 5 days at 5° or 10° C
Beet, field (not sugar) — Beta sulgari	В	20-30	3	14	Soak in water 2 hours before testing. Wash	us.	1	20-3	0	6	14 Light.
				į	in running water	Orchard grass—Dactylis glomerate	. S.	P 20-3	0 :	7	18 Germination more rapid
Rentgrass: Creeping (seaside):					after soaking.	Peas, field-Pisum sativum arvense	. R.	S 20			in soil; light on Petri
Agrostis palustris Highland:	P	20-30	7	28	Light; potassium nitrate.	Rape:	n,	5 21) 3	1	8
Agrostis tenuis var	P P	20-30	7	28	Do.	Annual-Brassica napus var.	. В				7
ermuda grass—Cynodon dactylon uegrass:	P	20-30 20-35	7 7 7 7	21	Do. Do.	Bird—Brassica campestris		20-30			O Light, fresh seed potas- sium nitrate.
Annual-Poa annua	P	20-30	7 7	21	Light.	Turnip—Brassica rapa var Winter—Brassica napus	. R	20-30			7 7
Canada—Poa compressa	P P	20-30 20-30	7 7	28 28	Light; potassium nitrate. Fresh seed 15°-30° C.	Redtop—Agrostis alba Reed Canary grass—Phalaris arun	TR) 5	1	0 Light. 1 Light; fresh seed potas-
Rough—Poa trinialio	P	20-30		21	daylight.	dinacea. Rescue grass—Bromus catharticus.	1	20-30			sium nitrate.
Wood-Poa nemoralis	P P	20-30 20-30	7 7 7 7	28 35	Do.		1	20-00	1 '	1 °	sium nitrate and 15.
		20 00	'	33	Light; fresh seed potas- sium nitrate and	Rhodes grass—Chloris gayana Rice—Oryza sativa	P	20-30		1	
00mcorn—Sorahum gulagra tash	Р,ТВ	20-30	6	14	15° C. Light.	Rye—Secale Cereale	B, 7	20-30		1	7
icus	B, S B, T	20-30	3	10		Italian—Lolium multiflorum	P,TI	3 20-30	5	1.	Light; fresh seed potas-
rpet grass-Axonopus compres-	P	20-30	3 10	6 21	Light.	Perennial-Lolium perenne	P,TI			1	sium nitrate.
ickpea—Cicer arietinum	R, S	20-30	3	7	Digit.	Sainfoin—Onobrychis viciaefolia	В	20-30	4	10	
Alsike—Trifolium huhridum	B, S	20	3	7		Grain—Sorghum vulgare Sweet (sorgo)—Sorghum vul-	B, S B, S			10	
Alyee Alysicarpus vaginalis	B, S	30 20	3	21		Soybean—Soja max	RT, S		5	1 2	5° or 10° C, for 5 days.
num.	B, T			7		danese.	B, S	20-30	3	10	
Medicago hispida. Cluster—Trifolium glomeratum		20	4	14		Sunflower—Helianthus annuus (cul- tivated)	Т, В	20-30		١.	
	B, S	20 20	3	10 7		odoratum.	P	20-30	3 6	7 14	
Todin - Materi	B, S	20	3	10		Timothy—Phleum pratense	P,TB	20-30	5	10	
tum.	В	20	3	7		Velvetgrass—Holcus lanatus	P	20-30	6	14	sium nitrate. Light.
SOUP Melalotus androg	B, S B	20	3 3	7 14		Common-Vicia satina	T	20	3	10	
ferum fragi-	В	20	3	7		Hairy—Vicia villosa. Hungarian—Vicia pannonica.	T	20 20	3	14 10	
terraneum	В	20	4	14 1	Fresh seed 15° C.	Hungarian—Vicia pannonica Monantha—Vicia monantha Narrowleaf—Vicia angustifolia	${f T}$	20 20	3 4	10 14	
Sweet-Melilotus alba and S	B 5, B	20 20	4 3	14		Purple—Vicia atropurpurea Woolypod—Vicia dasycarpa	T	20 20	3	10 14	
White Trifolium	3, S	20	3			Wheat: Common—spelt and emmer	T, S	20	3	7	Fresh and proshill at 50
Ton-Gossypium hirsutum T		20-30	4	10	'Prewet' seed on re-	Triticum aestivum. Durum—Triticum aestivum	T. S	20	3	10	Fresh seed prechill at 5° or 10° C. for 5 days. Fresh seed prechill at 5°
	R. S	20-30	5	1	test. ³ Watch for weevil injury	Wheatgrass:	_, 5	-	9	10	or 10° C. for 5 days.
D. DOD LAG mana asserta D		20-30	4	7	to plumule.		P,TB P,TB	20-30 20-30	5	14	Light; fresh seed 15° C.
sted dogtail-Cynosurus cris-		20-30 20-30	10	7 21 I	ight; fresh seed pre-	um.	-,11	20-30	0	14	Light.
tolonia Conti		20.20		į	chill for 3 days at 5° or 10° C.	VEGETABLES					
id C. spectabilis.		20-30		10		Artichoke—Cynara scolymus Asparagus—Asparagus officinalis	T T	20-30	7 7	21	
cue:	P	20-35	7	21 L	ight; fresh seed potas- sium nitrate.	Beans: Garden—Phaseolus vulgaris		20-30	- 1	21	
Hair-Festuca camillata		0-25		28 P	otassium nitrate.	Horse or broad—Vicia faba	R, S	20-30	5	8	Watch for "baldhead" and other injuries.
Other fescues	P 2	20-30 15-25	5	14 21		Lima—Phaseolus lunatus	R, S	20 20-30	5	10 9	Watch for "baldhead"
-Linum usitatissimum T	TB 2	20-30	3	7		Beet, Swiss chard and mangel	В	20-30	3	14	and other injuries. Soak in water 2 hours
p—Cannabis sativa		20-30	10	28 7		Beta vulgaris.					before testing. Wash in running water after
zu-Pueraria thunbergiana		20-30	_ (14		Brassica oleracea varieties: Cab-	В	20-30	3	10	soaking.
edeza: Chinese—Lespedeza sericea B.	. s 2	0-35	7	28		bage, collards, kale, brussels sprouts, cauliflower, broccoli,		20-00	٥	10	
Korean—Lespedeza striata.	B 2	0-35	7	14		Carrot—Daucus carota	В	20.20		0.0	4.
ne—Lupinus alba B.	Т	20	3	7.		Celeriac-Apium graveolens, var. 1	вт,ч	20-30	10	28 21	Light.
dow foxtail-Alopecurus pra-	T 2	20 0-30	1	21 14 Li	ight	Celery-Celeri graveolens var. dulce. I	B,TB	20-30	10	21	Light
ick, black-Medicago lupulina. B,	1	20			ight.		P,TS	20-30	5	14	Light; potassium nitrate or soil.
D,	2	20	3	7		Citron—Citrullus vulgaris Corn, sweet—Zea mays	R, S	20-30 20-30	7 4	14	9>
	T	n of blad	thomas PT		on tomolin D	locusta var. olitoria	B	20	7	28	Fresh seed 10° or 15° C.
ıbstrata: B = between blottere. T	H = to			= nan	er ioweiing: R = rolled	Cress:			- 1	- 1	
ubstrata: B = between blotters; T test; S = soil or sand; TS = top of a	B = to soil; P	= petri	dishes v	with 2	thicknesses of blotters	Garden-Lenidium entirum	n l	9.0		ا ۱٫۰	
thickness of absorbent cotton or	5 thic	knesses	of paper	er tow	thicknesses of blotters eling.	Garden—Lepidium sutivum Water—Roripa nasturtium-	В	20	4	10	
Substrata: B=between blotters; T l test; S=soil or sand; TS=top of thickness of absorbent cotton or Prewet" method on cotton; shake: " of the seed. Blot off all excess is higher report both it and the st	5 thic	knesses	of paped	er towe	thicknesses of blotters eling. horoughly wetting the	Garden—Lepidium sativum Water—Roripa nasturtium- aquatteum Cucumber—Cucumis sativus	B P S, B	20 20-30 20-30 20	4 3 7	10 14 7 21	Light.

¹⁰⁴

Name of seed	Sub- strata	Tem- pera- ture		Final count	Remarks
Endive—Cichorium endivia	P,TS	° C. 20-30	Days 5	Days 14	Light; potassium nitrate or soil.
Leek—Allium porrumLettuce—Lactuca sativa	B P	20 20	6 3	14 7	Light for ¼ hour; fresh seed prechill at 10° or 15° C. for 3 days.
Muskmelon—Cucumis melo Mustard:	B, T, S	20-30	4	10	15 C. for 5 days.
Black—Brassica nigra	P	20-30	3	7	Light; fresh seed potas- sium nitrate and pre- chill at 10° C. for 3
India—Brassica Juncea	Р	20-30	3	7	days. Light; fresh seed potassium nitrate and pre- chill at 10° C. for 3
Spinach—Brassica rapa pervi-			_		days.
ridis White—Brassica hirta (alba)	B	20-30	3 3	7	Light
Okra-Hibiscus esculentum	R	20-30	4	5 21	Ingut
Onion—Allium cepa	B, S	20-30	5	14	
Pak-chol—Brassica chinensis Parsley—Petroselinum hortense Parsnip—Pastinaca saliva Peas, garden—Pisum salivum Pepper—Capsicum spp Pe-tsal (Chinese cabbage)—Brass	B B R, S	20-30 20-30 20-30 20-30 20-30	11 6 5	7 28 28 8 14	
stca pektnensts Pumpkin—Cucurbita pepo	В	20-30 20-30		7 7	
Radish—Raphanus sativus Rhubarb—Rheum rhaponticum Rutabaga—Brassica napobrassica.	TS	20 20-30 20-30		. 6 21 14	Light.
Salsify—Tragopogon porrifolius	Т	20	5	10	Fresh seed prechill at 10° C. for 3 days.
Sorrel—Rumex acetosa	TS	20-30	3	14	Light.
Common—Spinacea oleracea. New Zealand—Tetragonia ex	ТВ	10	7	21	
pansa Squash—Cucurbita sp.	TC	20-30 20-30		28	Not too wet.
Tomato: Common—Lycopersicon esculentum. Husk—Physalis pubescens. Turnip—Brassica rapa. Watermelon—Citrullus vulgaris.	P,TB	20-30 20-30 20-30 20-30	7 3	14 28 7	Light.
Tractimeton—t urusus villgaris	. i I, S	1 20-30	4	14	i .

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State Seed Laws

Compiled by L. J. La Pine Seed Analyst

January, 1943

SEED WORLD and SEED TRADE BUYERS GUIDE wish to acknowledge the work of Miss Macy Spracher, Seed Analyst for Northrup, King & Co., Minneapolis, for her outstanding work in this department in previous editions of the Guide. Much of her work is retained in this compilation of the Seed Laws and to her we give full credit for the arrangement in this as well as all former volumes. Ed.

Grouping of Agricultural Seeds for Noxious Weed Labelling

GROUP A

- a. In excess of one seed in each 5 grams of timothy, redtop, tall meadow oat grass, orchard grass, crested dogstail, Canada bluegrass, Kentucky bluegrass, fescues, brome grasses, perennial and Italian rye grass, western rye grass, crimson clover, red clover, white clover, alsike clover, sweet clover, alfalfa, and all other grasses and clovers not otherwise classified.
- b. In excess of one seed in each 25 grams of millets, rape, flax, Sudan grass and other seeds not specified in (a) or (c) of this section.
- c. In excess of one seed in each 100 grams of wheat, oats, rye, barley, buck-wheat, vetches, and other seeds as large or larger than wheat.

GROUP B

- In excess of one seed or bulblet in each 5 grams of Agrostis spp., Poa spp., Rhodes grass, Bermuda grass, timothy, orchard grass, fescues (except meadow fescue), alsike and white clover, reed canary grass, Dallis grass, and other agricultural seeds of similar size and weight, or mixtures within this group;
- b. In excess of one seed or bulblet in 10 grams of rye grass, meadow fescue, foxtail millet, alfalfa, red clover, sweet clovers, lespedezas, smooth brome grass, crimson clover, Brassica spp., flax. Agropyron spp., and other agricultural seeds of similar size and weight or mixtures within this group, or of this group with (a);
- In excess of one seed or bulblet in each 25 grams of proso, Sudan grass

and other agricultural seeds of similar size and weight, or mixtures not speci-fied in (a), (b), or (d);

In excess of one seed or bulblet in each 100 grams of wheat, oats, rye, barley, buckwheat, sorghums (except Sudan grass), vetches, and other agricultural seeds of a size and weight similar to, or greater than, those within this group, or any mixtures within this group.

Note—Where there is a clause con-cerning HYBRID SEED CORN in the law, the labeling requirements are given a special heading coordinate with other groups of seeds. Where it comes under a regulation which may be changed any time by the enforcement officer, the re-quirements will be found under EN-FORCEMENT.

ALABAMA

Seed Law 1940—Rules and Regulations 1942

INFORMATION REQUIRED ON ANALYSIS TAGS OR CONTAINER

(A) Agricultural Seeds. Every lot of 5 pounds or more

- Common name and variety.

 Net weight.

 Lot number (regulation).

 Percentage of pure seed.

 Percentage of weed seeds. Prohibit 2½%,

 Dallis and Carpet grass 5%.

 Percentage of other crop seed (regulation).
- Paris and carry and carry seed (regulation).

 Percentage of other crop seed (regulation).

 Name and number per pound of each noxious weed seeds present singly or collectively in excess of

 (a) One in 5 grams (see page 106, group A.)

 (b) One in 25 grams.

 (c) One in 100 grams.

 Percentage of—

 (a) Germination.

 (b) Hard seeds. (Regulation.)

 (c) Month and year of test. Date of test not over 180 days prior to date of sale.

 Where grown.
- 10. Where grown.
 11. Full name and address of person responsible for label.
- (B) Mixtures of Field Seeds. Every lot of 5 pounds or more (by regulation every lot)

- 1. That such seed is a mixture.
- Net weight.
- Lot number (regulation).
- Name and percentage of each agricultural seed present in excess of 5% of total mixture.

- total mixture.

 Percentage of weed seeds. Prohibit 2½%,
 Dallis and Carpet grass 5%.

 Percentage of other crop (regulation).

 Percentage of inert matter (regulation).

 Name and number per pound of each noxious weed seeds present singly or collectively in excess of one seed in each 15 grams of the mixture.

 For each agricultural seed present in an
- For each agricultural seed present in excess of 5% give—

 (a) Percentage of germination.

 (b) Percentage of hard seeds. (Regulation)
- (c) Month and year of test. Date of test not over 180 days prior to date of sale.
- 10. Where grown.
- 11. Full Full name and address of person responsible for label.

(C) Special Mixtures. Every lot of 8 ounces or more (by regulation every lot)

- 1. That such seed is a mixture.
- 2. Net weight.
- 3. Lot number (regulation).

- 4. Name and percentage (regulation) of each kind of agricultural seed present in proportion of 5% of the total mixture.
 5. Percentage of weed seeds. Prohibit 2½%, Dallis and Carpet grass 5%.
- Percentage of crop seeds (regulation). Percentage of inert matter.
- Name and number per pound of each noxious weed seeds present singly or collectively in excess of one seed in 15 grams of the mixture.
- For each agricultural seed present in excess of 5% give—

 (a) Percentage of germination.

 (b) Percentage of hard seeds (regulation).

 (c) Month and year of test. Date of test not over 180 days prior to date of sale.
- 10. Where grown.
- 11. Full name and address of person responsible for the label.
- (D) Vegetable Seeds included as agricultural seed; therefore each lot of 5 pounds or more is to be labeled as agricultural seed under "A." By regulation the Department of Agriculture asks for the following labeling:
- (a) Packet seeds of less than 8 ounces shall bear a statement showing:

(1) Name of kind and variety of seed.
(2) For seed which germinates less than the standard last established by the Association of Official Seed Analysts. See standards, page 102.
(I) Percentage of germination exclusive of hard seeds.
(II) Percentage of hard seed if present.
(III) The calendar month and year the test was completed to deter-

(III) The calendar month and year the test was completed to determine such percentage.

(IV) The words "Below Standard."

(3) Name and address of person responsible for the information given.

(b) Packet or package seed of 8 ounces and over and less than 5 pounds shall bear a statement showing:

(1) Name of kind and variety of seed.

(a) Notice of statement showing:

Name of kind and variety of seed. Percentage of germination, exclusive of hard seed.

Percentage of hard seed if present.
The calendar month and year the test
was completed to determine such per-

centages. Name and address of party responsible

PROHIBITS THE SELLING OR GIVING AWAY FOR PLANTING PURPOSES SEED-

for the information given.

1. Containing 2½% of weed seeds. Domestically grown Dallis and Carpet grass, 5% of common weeds (until July 1, 1943).

Containing 300 primary or 800 secondary noxious weed seeds per pound.
Excessively low in germination.
With germination date over 180 days old.
Mislabeled seed whose variety is unadapted and unsuited for seeding purposes in Alabama.
800 seeds of Johnson grass will be permitted in Dallis grass until July 1, 1943; however, when more than 300 are present the tag shall bear the statement "Excessive Johnson Grass" in red ink.

NOXIOUS WEEDS PRIMARY NOXIOUS

PRIMARY NOXIOUS

Bermuda grass (Cynodon dactylon)
Bindweed (Convolvulus arvensis).
Dodders (Cuscuta spp.).
Garlic, wild (Allium vineale).
Johnson-grass (Sorghum halepense).
Nutgrass (Cyperus rotundus).
Onion, Wild (Allium canadense).
Sheep-sorrel (Rumex acetosella).
SECONDARY NOXIOUS
Buckhorn (Plantago lanceolata).
Cheat or chess (Bromus secalinus).
Corncockle (Agrostemma githago).
Darnel grass (Lolium temulentum).
Dock, Broadleaf (Rumex obtusifolius).
Dock, Curled (Rumex crispus).
Plantain, Bracted (Plantago aristata).
Quackgrass (Agropyron repens).
Thistle, Canada (Cirsium arvense).

LABORATORY

Federal—State seed laboratory.
L. N. Allen, Associate Seed Technologist,
U. S. Department of Agriculture.
O. L. Justice, Chief seed analyst State of

O. L. Justice, Chief seed analyst State of Alabama.
Tests—Any citizen of Alabama may submit samples for test. No charge will be made for the first \$3.00 worth of service, all over that will be charged as prescribed in the Rules and Regulations. Farmers' samples will be accepted during the intervals beginning May 15 and ending August 15, and beginning November 15 and ending December 15.

Under State Board of Agriculture.

Under State Board of Agriculture.
(a) Notice of shipment of agricultural seeds, field and vegetable, shall be mailed to the Commissioner of Agriculture and Industry within 24 hours of shipping date and shall bear:

(1) Name and address of shipper.
(2) Name and address of person to whom shipped.
(3) The amount.
(4) The kind and variety of seed.
(5) The lot numbers of seed.
(b) Notice of the location of so called commission boxes of packet seed shall state:

state:
(1) Number of boxes.
(2) Number and size of packages in

Their classification as to kinds of seed contained therein.

Name and address of shipper and party to whom delivered.

REGULATIONS

Size of analysis tag shall be 434 x 23% inches, or equivalent in square inches.

All information required on analysis tag shall be placed on one side of the label without intervening matter.

The date on the analysis tags should be the date the germination test was completed. A complete analysis totaling 100% must be given. Blank spaces on a form tag or incomplete analysis are not permissible.

Abbreviation of names of the variety and kind of seed is not permissible.

Place of origin shall not be used as part of varietal name and kind of seed.

Modifying words or phrases shall not be used in connection with the variety, as "type," "for forage purposes," etc.

Brand names, designs, grades or pictures indicating a contradiction to any part of the analysis shall not be permitted.

Different varieties of the same kind of seed, when in quantities less than 5%, will be considered other crop seed.

Standard Weights—Seed when packed for sale shall be in bags of standard weights and sizes as follows:

This regulation is abrogated until July 1, 1943.

Ryegrass, Vetches, mixtures of Vetches or Peas, Austrian Peas, Cotton Seed and Cro-talaria—100 lbs. net.

Barley 96 and 120 pounds net.

Lespedeza—100 and 125 pounds net. Crimson Clover, Cane and Sudan Grass—100 and 150 lbs. net. Soybeans and Wheat—120 to 150 pounds net. Rye—112 and 140 pounds net.

Oats shall be 4 bushels of not less than 128 pounds.

seeds within 10 days after delivery of seeds. seeds

seeds.

Trucks or other motor conveyors transporting seed over the highways shall have available for examination a bill of lading, waybill, or delivery receipt showing (1) the name of the shipper or party from whom purchased; (2) the name and address of the party to whom seeds are to be delivered; (3) the kind and amount of each separate kind of seed and (4) the name of the truck driver and truck line making the delivery.

Express, mail and freight including truck deliveries to consumers of seed shall also be subject to provisions and rules and regulations pertaining to the enforcement of the Seed Law.

New analysis tag bearing the name of the vendor or other party responsible shall be placed on seed after the original test date becomes 180 days old.

Seeds treated with fungicides, shall show on the label the words "Poison Treated" in not less than 1/4 inch face red type.

Minimum germination. No agricultural seed except grasses, unscarified legumes, garden seed listed in The Standards for Germination and seed released by the U. S. customs shall be offered for sale if the germination is below 60%.

is below 60%. Seed labeled or sold as "Certified," "Registered" or "Pedigreed" must have been certified or registered and inspected by an officially authorized agency and cannot be sold in Alabama unless the party selling shall have registered with the Alabama Department of Agriculture Seed Laboratory the lot number, variety and kind, name and address of the grower, and the history of the seed. seed.

seed.
Oats consisting of mixed varieties, and oats containing a total of 5% or more of other oat varieties shall not be sold or offered for sale as seed oats.

False wild oats will be considered weeds.

ratse wild oats will be considered weeds. Only the analysis tag and a tag showing that the seeds have been treated with poison will be allowed, and both must be attached by the same fastener.

Agricultural seed containing primary noxious weed seeds in excess of 200 per pound shall be labeled in red ink in not less than 12 point type, "EXCESSIVE NOXIOUS WEEDS."

ARIZONA

Seed Law 1941—Rules and Regulations Nov. 26th 1941

INFORMATION REQUIRED ON ANALYSIS TAGS OR CONTAINERS

(A) Agricultural Seeds (Unmixed). Every lot.

- 1. Name of-
- (a) Kind or,(b) Kind and variety, if unknown so state

- Lot number or other lot identification.
 Percentage of purity.
 Percentage of inert matter.
 Percentage of weed seeds.
 Percentage of other agricultural seed.
 Percentage of—
 - (a) Germination, exclusive of hard seed. (b) Hard seed.
 - (c) Month and year test was completed.

 The test shall have been completed within a nine month period exclusive of the month in which the test was com-

pleted.
Following (a) and (b) statement of "Total Germination and Hard Seed" may be given

- Origin of alfalfa, red clover and field corn (except hybrid). If origin is unknown it must be so stated.

 Name and address of dealer who labeled the seed, or who sells, offers or exposes said seed for sale.

- Name and number of secondary noxious weed seeds per ounce in groups B1 and B2 and per pound in B3 and B4 when present singly or collectively in excess of

 (a) a. 1 seed in 5 grams (see page 106, group B).

 b. 1 seed in 10 grams.

 c. 1 seed in 125 grams.

 d. 1 seed in 100 grams.

 (b) Name and number per ounce of Bermuda grass (Cynodon dactylon) and Sour clover (Melilotus indica) when present in seeds of grassed or small seeded legumes. seeded legumes
- 11. Statement that no primary noxious weed seeds are present in the lot, subject to tolerances.

 12. Year in which seed was grown.

(B) Mixed Agricultural Seeds. Every lot.

Same as unmixed agricultural seed except it shall be called "Mixed" or a "Mixture" and the information required under (A) 1, 3 and 7 shall be given for each kind of agricultural seed present in excess of 5% in the order of its

- Vegetable Seeds. Every lot of less than one pound.
 - 1. Name of kind and variety.

- Seed which germinates less than the standard last established by the state entomologist. (See page 102 for standards.)
 (a) Percentage of germination exclusive of hard seed.

 - hard seed.
 (b) Percentage of hard seed.
 (c) Month and year test was completed.
 The test shall have been completed within a nine month period exclusive of the month in which the test was completed.
 (d) The words "BELOW STANDARD" in prefere them? Specific types.
- not less than 8 point type.

 3. Name and address of dealer who labeled seed, or who sells, offers or exposes said seed feel.

PROHIBITS FROM SALE

- Unless the test for germination shall have been completed within a nine month period exclusive of the month in which the test was made.
 If containing primary noxious weed seeds. subject to tolerances.

NOXIOUS WEEDS

PRIMARY NOXIOUS WEEDS, prohibited if present subject to tolerances.
Nut grass—Cyperus rotundus, C. esculentus; Bindweed—Convolvulus arvensis; Russian knapweed—Centaurea repens; Canada thistle—Cir-

sium arvense; Leafy spurge—Euphorbia esula; Hoary cress—Lepidium draba, L. repens, Hymenophysa pubescens; Horsenettle—Solanum eleagnitolium, S. carolinense; Perennial sow thiste—Sonchus arvense; Camels thorn—Alhagi camelorum; Johnson grass—Sorghum halepense twhen it occurs in sudan grass and small seeded legumes)

legumes).

SECONDARY NOXIOUS WEEDS
Wild oats—Avena fatua; Wild mustard—Brassica arvense. B. nigrum, B. juncea; Tansy mustards—Sisymbrium irio, S. sopiia, S. altissimum; Dodders—Cuscuta spp.; Ragweeds—Franseria tenuifolia, F. discolor, Ambrosia psilostachya; Poverty weed—Iva axillaris; Alkali mallow—Sida hederaceae; Blue sunflower—Helianthus ciliaris; Squirrel tail grass—Hordeum jubatum; Wildbarley—Hordeum murinum; Buckhorn plantain—Plantago lanceolata; Russian thistle—Salsola kali var. tenuifolia; Bur grass—Cenchrus pauciflorus; Puncture vine—Tribulus terestris; Wnorled mikweed—Asciepias galioides; Johnson grass—Sorghum halepense (except as specified under Primary noxious weeds).

"STOP SALE" ORDER. The state entomologist shall have the power to issue and enforce a stop sale order to the owner or custodian of any agricultural or vegetable seed which is in viola-

tion of any provisions of this act, which order shall prohibit the further sale of the seed until proof is furnished that the law has been complied with. Before such order is issued or attached the owner or custodian shall be given an opportunity to comply with the law or to withdraw the seed from sale. The owner or custodian of seed that has been denied sale under a stop sale order shall have the right to appeal from the order to the Superior court of the county in which the seed is found.

county in which the seed is found.

SEIZURE. Any lot of agricultural or vegetable seed not in compliance with the provisions of this act shall be subject to seizure upon the complaint of the state entomologist to the Superior court of the county in which the seed is located. If the court finds that the seed does not comply with the law it shall order the condemnation thereof, and the seed shall be denatured, processed, destroyed, relabeled, or otherwise disposed of as ordered by the court. Upon application of the owner or custodian of the seed, the court shall have power to permit the applicant to process or relabel the seed to bring it into conformity with the act.

Sugar beet seed exempt from the various provi-

Sugar beet seed exempt from the various provisions requiring the percentage of germination.

LICENSE. Any dealer who sells, distributes,

processes or mixes for the use of another, any agricultural or vegetable seed shall obtain a license, at a cost of fifty cents (50c) from the state entomologist. A dealer shall not be entitled to a license unless he has an established plant, warehouse or place of business. The license shall be renewed annually not later than July 1st, and the application for renewal shall be accompanied by a fee of fifty cents (50c). This provision shall not apply to a farmer growing or marketing his own seed, or to any individual who harvests the producer's crop and receives part of the crop as payment for services rendered in harvesting.

SEED LABORATORY

Agronomy Dept., University of Arizona, Tucson, Ian A. Briggs, Associate Agronomist.

FEES FOR TESTING

EES FOR TESTING
Not more than 5 samples shall be tested free of charge in any calendar year, nor more than 1 in any calendar month for an individual. Samples in excess of this number shall be tested upon payment of a minimum fee of seventy-five cents (75c) for either purity or germination and \$1.50 for both. Fees shall be proportionately higher when more than the usual amount of time is required.

ARKANSAS

Act of 1921 As Amended 1939 - Rules 67 and 68 - Regulations Form 101 and 102 Revised June 30, 1940

INFORMATION REQUIRED ON ARKANSAS PERMIT TAG

(A) Agricultural Seeds—Each Bag.*

Kind of seed.
Lot number.
Percentage of pure seed.
Percentage of weed seed.
Names and numbers of noxious weed seeds present per pound or, if not present, a statement to that effect.
Percentage of:
(a) Genination evolution of band or if

Percentage of:

(a) Germination exclusive of hard seed.

(b) Hard seed.

(c) Date of test. Made not more than 6 months previously.

Percentage of hard seeds if present.

State in which grown; if unknown, so state.

Seedsman's or vendor's name and address.

(B) Mixtures.*

Mixtures of 2 or more kinds—percentage of purity of the predominant kind may be given and the other kinds be considered as impurities, or the percentage of the various kinds present may be shown with the germination of each (exclusive of hard seeds) and the percentage of hard seeds, if present, or if the germination (including hard seeds) of none of said seeds is below 85%, then only the germination of the mixture taken as a whole need be shown.

(C) Vegetable Seeds.

The State Plant Board is authorized to sample and test vegetable seeds and to publish the results should the seed be found adulterated, misbranded or of poor quality.

NOXIOUS WEEDS

Dodder—Cuscuta spp.; Buckhorn—Plantago lanceolata; Chess or Cheat—Bromus secalinus;

Red Rice; Nut grass—Cyperus rotundas; Darnel—Lolium temulentum; Johnson grass—Sorghum halepense; Corn cockle—Agrostemma githago; Bottle brush plantain—Plantago aristato; sorrels—Rumex acetosa and Rumex acetosella; Docks—Rumex crispus, R. obtusifolius and R. conglomeratus; Wild onion or garlic—Allium spp.; Morning glory—Ipomoea purpurea; Field bindweed—Convolvulus arvensis; Hedge bindweed—Convolvulus sepium.

PROHIBITS FROM SALE OR TRANSPORTATION-

FIELD SEEDS CONTAINING:
Field bindweed, wild onion and nut grass.
FIELD SEEDS OTHER THAN LESPEDEZA
AND SUDAN GRASS CONTAINING:
5 Johnson grass per pound.
250 Dodder and cheat per pound.
2000 Noxious weed seeds per pound.
LESPEDEZA AND SUDAN GRASS CONTAINING:

1NG:
25 Johnson grass per pound, if less, use spe-

cial permit tag.
250 Cheat per pound, if from 100 to 500, use special permit tag.
2000 Noxious weed seeds per pound.

SEED LABORATORY

Agricultural Building, Fayetteville, Arkansas. John E. Casey, Analyst.

ENFORCEMENT AND REGULATIONS
Enforcement under State Plant Board, W Enforcement under State Plant Board, War Memorial Building, Little Rock, Arkansas. Paul H. Millar, Chief Inspector. Pault H. Miliar, Chief Impector.

Permit tags required on each bag of field seeds may be secured from the State Plant Board.

War Memorial Building, Little Rock, Arkansas; tags 2 cents each; good until July 1 of following year; expired tags exchanged at ½ cent each. Special Permit Tags bearing the words "Excessive Noxious Weeds" in large type, secured from the Plant Board.

Annual application of \$1.00 required except from those who use less than 20 permit tags and growers of Arkansas certified seed. Permit tags may be cancelled for failure to comply with the regulations.

Cotton seed. To sell cotton seed in Arkansas must file with the application for permit, a satisfactory certificate of freedom from communicable diseases signed by state quarantine officer of state in which seed was grown.

omcer or state in which seed was grown. Vetch seed must have attached to each bag, in addition to analysis and permit tag, a state or federal certificate, attached by official seal, to seal the mouth of the bag, showing that the bag has been satisfactorily fumigated or that the seed was grown in a state or county free from vetch weevil.

Hybrid Corn. Permits to sell hybrid corn will be granted:

be granted:

(1) To breeder who has been officially recognized in his respective state.

(2) On strains which have been found adapted to Arkansas. Breeder's permit tag must be attached to each container.

Sorghum seed for syrup purposes and Abruzzi rye is prohibited unless permission has been obtained from the Plant Board based on proof of trueness to name.

Use of words "Certified" or "Registered" limited to seed certified or registered by the duly authorized officer of the state of origin.

If Soybeans and small grains are sold for other than planting purposes this must be indicated on the bag or tag.

*The information required by the Federal Seed Act, if given in toto, may be substituted for the information in (A) and (B).

CALIFORNIA

Agricultural Code Amended 1939

INFORMATION REQUIRED ON ANALYSIS TAGS.

(In not less than 7 point type or written in ink.)

(A) Agricultural Seeds. Every lot of 5 lbs. or more.

Every lot of 5 pounds or more.

- 1. That such seed is a mixture
- Name and percentage of each kind of Agricultural seed present in excess of 5% by weight of the total in the order of its preponderance
- 3. Percentage of weed seeds.
- 4. Name and number per pound of each primary noxious weed seed present.
- Name of each secondary noxious weed present singly or collectively in excess of one seed in each 15 grams.
- 7. Name and address of vendor.

(B) Mixtures of two kinds of seeds. (C) Special Mixtures. Each lot of 8 ounces or more.

1. That such seed is a mixture.

- Name of each kind of agricultural seed present in proportion of 5% or more of the total mixture in the order of its preponder-
- 3. Percentage of weed seeds,
- 4. Percentage of inert matter.
- Name and number per pound of each pri-mary noxious weed seed present.
- Name of each secondary noxious weed seed present singly or collectively in excess of one seed in each 15 grams.
- 6. For each agricultural seed present in excess of 5% give—

 (a) Percentage of germination, exclusive of hard seed. (Regulation.)

 (b) Percentage of hard seed. (Regulation.)

 (c) Month and year of test.

 one seed in each 15 grams.

 7. Name and address of the vendor.

 (d) Vegetable Seed—Law does not include flower, sugar beet, and garden vegetable seed.

LYFR

NOXIOUS WEEDS

PRIMARY NOXIOUS WEEDS

RIMARY NOXIOUS WEEDS

Blueweed, Texas—Helianthus ciliaris
Camel's thorn—Alhagi camelorum
Canada thistle—Cirsium arvense
Cress, Austrian field—Roripa austriaca
Cress, Hoary—Lepidium draba, including Lepidium repens, Hymenophysa pubescens
Cress, Perennial pepper—Lepidium latifolium
Gaura, Scarlet—Gaura coccinea
Gaura, Wavy leaved—Gaura sinuata
Horsenettle, White—Solanum carolinense
Horsenettle, Carolina—Solanum carolinense
Riamath weed—Hypericum perforatum
Knapweed, Russian—Centaurea repens
Riamath weed—Hypericum perforatum
Nutgrasses—Cyperus spp., including Cyperus
esculentus, Cyperus rotundus
Quackgrass—Agropyron repens
Sowthistle, Creeping or Perennial—Sonchus arvensis,

Versia, Forbaldia Sonchus arvense

Thistle, Russian—Cantaurea
Thistle, Russian—Cantaurea
Thistle, Purple star—Centaurea
Thistle, Purple star—Centaurea vensis. Surge, Leafy—Euphorbia esula

SECONDARY NOXIOUS WEEDS

Bassis, Fivehook—Bassis hyssopifolia
Bindweed or Wild morning glory—Convolvulus
arvensis
Crabgrass—Digitaria sanguinalis
Crabgrass, Smooth—Digitaria ischaemum
Dodder, Clover—Cuscuta epithymum
Dodder, Field—Cuscuta epithymum
Dodder, Flax—Cuscuta epilinum
Dodder, Flax—Cuscuta epilinum
Dodder, Flax—Cuscuta epilinum
Dodder, Small-seeded—Cuscuta indecora
Dodder, Small-seeded—Cuscuta planiflora
Dogbane—Apocynum cannabinum
Johnson Grass—Holcus halepensis
Mallow, White or Alkali—Sida hederacea
Nightshade, Black—Solanum nigrum
including Solanum douglasii—(Perennial)
Poverty weed—Iva axillaris
Poverty weed, Franseria—Franseria tenuifolia
Puncture vine—Tribulus terrestris
Ragweed, Western—Ambrosia psilostachya
Red rice—Oryza sativa-var.
Sandbur—Cenchrus pauciflorus

Thistle, Iberian—Centaurea iberica Thistle, Italian—Carduus pycnocephalus Thistle, Purple star—Centaurea calcitrapa Thistle, Russian—Salsola kali Thistle, Yellow star—Centaurea solstitialis

Federal-State Seed Laboratory. State Office Building, Sacramento.

Leatha D. Bunting, Analyst, U. S. Dept. of Agriculture.

Free tests—Four free tests or one special mixture will be made during the calendar year for any firm or individual.

Charges:

(a) For purity tests.

1. Alfalfa, cereals, clovers, cotton, cowpeas, fescues, field peas, flax, flower, lolium, millets, mixtures of only 2 kinds of seeds, mustards, phalaris, rape, rice, sorghum, soy beans, sugar beets, timothy, vegetable and vetches

2. Agropyrons, Bermuda grass, brome grass, crested dogs tail, meadow foxtail, sudan grass, sweet vernal, and tall meadow oat grass

2.00

sweet vernal, and tall meadow oat grass\$2.00

3. Bent grasses, Dallis grass, Ky.
bluegrass, and other Poa spp.
orchard grass, redtop, and
Rhodes grass\$3.00

4. Special mixtures\$5.00

(c) Examination for weed seeds....\$1.00
(d) Identification\$.50
(e) Official sampling by request. A charge of \$1.00, plus traveling expenses of inspector and regular charges for test or tests requested.
(f) Any seed not listed will be charged fee in appropriate class above.

ENFORCEMENT

State Dept of Agriculture, Bureau of Field Crops, L. M. Jeffers, Chief.

REGULATIONS

(1) Hard Seed—It is not permissible to include the hard seed as a part of the germination percentage. The percentage of hard seeds may be stated separately.

(2) Label statements shall be in not less than 7 point type or written in ink.

(3) Common name not sufficient for:

(a) Mustards used as cover crops. Both common name and specific name are required.

(b) Ryegrass—The common name origin shall be given.

(c) "Vetch" not sufficient, give variety name also.

(4) Mixtures and special mixtures. Agricultural seeds shall be named on the label in order of their preponderance in the mixture. If a component is less than 5% of a special mixture its name must not be included unless accompanied by the actual percentage. Naming a special mixture after one of its component parts is not permissible unless the percentage of pure seed of its component parts is not permissible unless the percentage of pure seed of the kind named be stated on the label.

CONNECTICUT

Act of 1937

INFORMATION REQUIRED ON ANALYSIS TAGS OR CONTAINER

(A) Agricultural Seeds-Each lot.

Agricultural Seeds—Each lot.

1. Name of seed.
2. Percentage of purity.
3. Percentage of weed seeds.
4. Name and number per ounce of noxious weeds present singly or collectively in excess of:

(a) 1 seed in each 5 grams.

(See page 106, group A.)

(b) 1 seed in each 25 grams.

(c) 1 seed in each 100 grams.

5. Percentage of germination together with month and year of test.

6. Full name and address of vendor.

(B) Mixtures of Agricultural seeds of not more than 2 kinds of seeds. 1. That such seed is a mixture. 2. Name and approximate percentage by weight of each kind of Agricultural seed present in excess of 5% of the total mixture.

3. Percentage of weed seeds.4. Name and number per ounce of each nox-

ious weed present singly or collectively in excess of one seed in each 15 grams.

5. Percentage of germination of each Agricultural seed present in excess of 5% of the total mixture, together with month and year tested.

NOXIOUS WEEDS

Quack grass—Agroj cuta spp.: Canadiplantain—Plantago hawkweed—Hierach

year tested.

6. Full name and address of vendor.

(C) Special Mixtures.

That such seed is a mixture.
 Name and percentage by weight of each kind of seed present in the mixture.
 Percentage by weight of weed seeds.
 Percentage by weight of inert matter.
 Name and number per ounce of each noxious weed, singly or collectively in excess of one seed in 15 grams.
 Full name and address of vendor.

(D) Vegetable seeds. Each separate container.

The kind and variety of seed.
 Percentage of germination together with year tested.
 Name and address of packetor or vendor.

Quack grass—Agropyron repens; dodder—Cuscuta spp.; Canada thistle—Cirsium arvense; plantain—Plantago spp. (includes buckhorn); hawkweed—Hieracium spp.; curled dock—Rumex crispus; wild mustard—Brassica arvensis and other Brassica species.

SEED LABORATORY

Conn. Agricultural Experiment Station, New

Haven.
E. M. Stoddard, Analyst in Charge.
Tests—Any citizen of Conn. may send for test
a maximum of 5 germination tests or 1 purity
test within a given calendar month. Samples for
labeling purposes not accepted.

ENFORCEMENT

is under the Commissioner of Agriculture, Olcott F. King, State Office Building, Hartford. Francis H. Adams—Chief Inspector. Conn. Dept. of Agriculture has established 3 voluntary grades for lawn grass. The use of these grades is limited to Connecticut dealers, but is not obligatory on them.

STOKES TOMATO SEED

Stokesdale

Master Marglobe

Rutgers

Certified by the State of New Jersey

FRANCIS C. STOKES COMPANY

Vincentown

New Jersey

Growers

of

Watermelon

and

Crotalaria Seed

Also NURSERY STOCK

Serving the trade for 40 years

LET US KNOW YOUR REQUIREMENTS

SIMPSON NURSERY CO. MONTICELLO, FLORIDA

TURF GRASSES

Our specialty is domestic and imported grasses for use in lawn mixtures. We shall be glad to quote at any time.

When in a hurry phone LD-66

O. M. SCOTT & SONS COMPANY

Marysville, Ohio

COLORADO As Amended In 1921, 1925, and 1929

INFORMATION REQUIRED ON ANALYSIS TAGS

	SEEDS
	KindVariety
	Pure Seed %
	Germination %
	Grown inLocality (If in Colo.)
\circ	Noxious Weeds: Name and Number per pound, in excess of 90 seeds
	pound

	Name (Seller)
	Address

- (A) Agricultural Seeds-5 pounds or more.
- (B) Mixtures of Agricultural seeds as above in A
- (C) Vegetable Seeds—Law does not apply except to "Vine Seeds."* Vine seeds—Label 5 pounds or more.

- seeds—Label 5 pounds or more.

 1. Name.

 2. State or foreign country where grown, if in Colorado, the locality. Or plainly mark "unknown."

 3. Cantaloupe seed saved from cull piles and melons left in field after shipping shall be plainly marked "cull seed."

 4. Name and address of vendor.

 *"Vine Seeds"—includes all varieties of cucumbers, cantaloupes, muskmelons, honeydews, casabas, pumpkins, squashes, and watermelons.

NOXIOUS WEEDS

Barley, wild, or squirrel-tail grass (Hordeum jubatum)
Bindweed or wild morning-glory (Convolvulus arvensis)

Cheat (Bromus secalinus)
Clover, hop (Trifolium procumbens)
Cockle (Saponaria vaccaria, syn. Vaccaria
vaccaria; and Agrostemma githago)
Crabgrass (Digitaria ischaemum, Digitaria
sanguinalis; syn. Syntherisma ischaemum,
Syntherisma sanguinalis)
Dodders (any variety) (Cuscuta pentagona,
C. indecora, C. planiora, C. epilinum)
Mustard, wild (any variety) (Brassica spp.)
Oats, wild (Avena fatua)
Plaintains (any variety) (Plantago lancelata,
P. major, P. rugelii)
Poverty weeds (any variety) (Iva axillaris,
Franseria tomentosa, F. discolor)
Sowthistle (Sonchus arvensis)
Thistle, Canada (Cirsium arvense)

Thistle, Canada (Cirsium arvense)

SEED LABORATORY

At Colorado Agricultural Experiment Station, Fort Collins, Colorado.
Bruce J. Thornton, Assoc. Bot. in Charge.
Helen Kroeger, Analyst.
The per cent of hard seed may be specified on the label, but must not be added to the germination.

DELAWARE

Law of 1929

INFORMATION REQUIRED ON ANALYSIS TAG

- (A) Agricultural seeds. Every lot of 10 pounds or more.

 - Name.
 Percentage of pure seed.
 Name and number per ounce of each noxious weed seed present in excess of:

 (a) One in each 5 grams.
 (See page 106, group A.)
 - (b) One in 25 grams. (c) One in 100 grams.
 - 4. Percentage of germination together with month and year tested.
 5. Name and address of vendor.
- (B) Mixtures exempt except noxious weed clause (See No. 3 above).
- (C) Vegetable Seed not under the law except canning house peas which ENFORCEMENT are listed as agricultural seeds.

 State Board of

NOXIOUS WEEDS

Quack grass—Agropyron repens; Canada thistle—Cirsium arvense; dodders—Cuscuta species; wild mustard—Brassica arvensis; wild oats—Avena fatua; orange hawkweed—Hieracium aurantiacum.

Dodder in excess of 30 per ounce is prohibited in lespedeza.

STOP SALE AND SEIZURE
The State Board of Agriculture may cause to be seized and held any lot of agricultural seed or mixtures of the same found to violate any of the provisions of this Act until the law has been complied with or said seed violation otherwise legally disposed of.

SEED LABORATORY

State Board of Agriculture, Dover. John L. Clough, Analyst. Purity and germination tests 25 cents each.

State Board of Agriculture, Dover.

FLORIDA

Law of 1941 and Regulations

INFORMATION REQUIRED ON ANALYSISTAG OR CONTAINER

- (A) Agricultural Seeds (Unmixed). Every
- Commonly accepted name of:

 (a) Kind or
 (b) Kind and variety or
 (c) Kind and type.

 Lot number or other lot identification.
 Percentage of purity.

Percentage of inert matter. Percentage of weed seeds. Prohibit if in excess of 3%, Carpet grass 5%. Percentage of other agricultural seed. Percentage of:

(a) Germination exclusive of hard

7. Percentage ot:

(a) Germination exclusive of hard seed.

(b) Hard seed.

(c) Month and year of test. The test for germination shall have been completed within a 12 month percive of the month in which it was completed.

Following (a) and (b) "Total Germination and Hard Seed may be given if desired."

8. Origin of alfalfa, red clover, and field corn, if unknown it must be so stated.

9. Name and address of person who labeled seed, or who sells, offers, or exposes said seed for sale.

10. Name and number of each kind of noxious weed seed per ounce in groups B1 and B2 and per pound in B3 and B4 when present singly or collectively in excess of:

a. 1 seed in 5 grams. (See page 106, group B)

b. 1 seed in 10 grams.

b. 1 seed in 10 grams. c. 1 seed in 25 grams. d. 1 seed in 100 grams.

(B) Mixed agricultural seed. Everylot.

Same as for unmixed seed except that it must be called "Mixed" or a "Mixture" and the information required under items (A) 1, 3 and 7 shall be given for each agricultural seed component present in excess of 5%, in the order of its predominance.

(C) Vegetable seeds. Every lot.

1. Name of kind and variety.
2. For seed which germinates less than the standard last established by the Commissioner of Agriculture.

(See page 102 for standards)

(a) Percentage of germination, exclusive of hard seed.

(b) Percentage of hard seed.

(c) Month and year of test. The test shall have been completed within a 12 month period exclusive of the month in which the test was completed.

(d) The words "BELOW STANDARD" in not less than 8-point type.

(Provided no seed shall be sold which falls more than 20% below the established standard.)

3. Name and address of the person who labeled seed, or who sells, offers, or exposes said seed for sale.

Prohibits the Sale, Offering or Exposing for Sale of:

for Sale of:

1. Agricultural or vegetable seeds unless the test for germination shall have been completed within a 12 month period exclusive of the month in which test was completed.

2. Seed containing in excess of 500 noxious weeds per pound.

3. Seeds containing in excess of 3% of weeds, Carpet grass 5%.

4. Agricultural seed except grasses, unscarified legumes such as clovers, alfalfa, Alyce clover, crotalaria, chickpea, and kudzu, garden seed listed in The Standards for Germination, and seed released by the United States Customs, if the germination percentage is below 60%.

5. Seeds which fall 20% below the established germination standards.

NOXIOUS WEEDS

Garlic or wild onion (Allium vineale).
Bermuda grass (Cynodon dactylon, except when sold as such).
Quack grass (Agropyron repens).
Dodder (Cuscuta species).
Johnson grass (Sorghum halepense, except when sold as such).
Nut grass (Cyperus rotundus).
Canada thistle (Cirsium arvense).
Corn cockle (Agrostemma githago).

"Stop Sale" notice or order may be issued and enforced by the Commissioner of Agriculture or his authorized agents to the owner or custodian of any lot of agricultural or vegetable seed which he finds or has good reason to believe is in violation of any of the provisions of this act which will prohibit further sale, barter or exchange of such seed until the Commissioner is satisfied the law has been complied with. After receiving confirmation that the seed does not comply with the act the owner or custodian shall have 15 days in which to comply with the law or withdraw the seed from sale.

SEIZURE OF SEED.

If for a period of 15 days, after having received the "stop sale" notice, the owner or custodian of the seed has failed to comply

with the law or to withdraw such seed from sale the Commissioner shall be authorized to seize and hold said lot of seed which shall, after the expiration of 15 days from the date of seizure, be destroyed or disposed of by the Commissioner in such manner as he shall by regulation prescribe.

SEED LABORATORY

State Seed Laboratory at Tallahassee. Miss Mildred V. Henry, seed analyst. Fees for tests for persons residing in Florida. Purity on:

Fees fo Florida:

torida:
The fees shall be the same as those charged by Commercial analysts. For example:
Oats \$1.50
Rye, wheat, and similar grains. \$1.00
Grasses \$3.00
Mixtures \$3.00

ENFORCEMENT

Commissioner of Agriculture, Nathan Mayo Department of Agriculture, Tallahassee. Supervising Inspector, Phil S. Taylor.

Registration and license fees.

(A) Every person, before selling, offering or exposing for sale any agricultural or vegetable seeds, or mixtures thereof, other than packaged seed, shall 1. Register with the Commissioner as a seed dealer.

2. Give number and location of each place of business at which such seed is sold, offered or exposed for sale.

3. Pay the Commissioner

(a) \$1.00 if retailer, for each place of business.

(b) \$25.00 if wholesaler, or wholesaler and retailer for each place of business where seeds are sold, offered or exposed for sale at wholesale, or at wholesale and retail, and \$1.00 for each place of business at which seeds are sold, offered or exposed for sale at retail only.

4. Such registrations shall be renewed July 1st of each year at the same fee.

(B) When vegetable seeds are sold or consigned to or placed with any person for sale in packets or packages of 8 ounces or less, each box or container of not exceeding 72 dozen such packets or packages of vegetable seeds, or vegetable and flower seeds, shall have attached thereto an inspection fee stamp furnished and secured from the Commissioner, for which a fee of 25c shall be paid.

REGULATIONS

(a) Analysis tags for agricultural seed shall be not less than a No. 5 standard tag—size 4½x2½ inches.

(b) All information required on the analysis tag shall be placed on one side of the tag without intervening matter, and no other information shall be placed on this side with the analysis. The analysis shall be complete and total 100%.

(c) Abbreviation of the name of the variety and the kind of seed on the analysis tag is prohibited.

(d) Modifying words or phrases shall not be used in connection with the variety (as for example "type," "for forage purposes," etc.), nor shall group names be used as variety names.

(e) Seed dealers carrying in stock grains or other seeds, which are intended for feeding purposes and not for planting, shall affix to each bag, parcel, or container a tag stating

1. Kind and net weight of the grain.

ing purposes and not for planting, shall affix to each bag, parcel, or container a tag stating

1. Kind and net weight of the grain.
2. In plain, legible type the words:
"The grain in this container is intended for feeding purposes only and will not be sold for seed."

(f) New analysis tags bearing the name of the vendor, or other party responsible, shall be placed on the seed after the original test date becomes twelve months old.

(g) Records of receipt, sale and delivery of all seed by any dealer shall be kept readily accessible for examination by an authorized agent of the Department of Agriculture, and such records shall be on hand not later than 10 days after receipt of such seed, and be kept for a period of three years.

(h) Trucks and other motor conveyances transporting seed for sale, or to be sold to consumers on the public highways of Florida, shall have available for examination at any time a bill of lading, waybill, or a delivery receipt showing

1. Name of shipper or party from whom purchased.

SEEDS

We Sell—

We Buy

BLUE GRASS ALFALFA **CLOVERS** LESPEDEZA **GRASSES FORAGES**



Since 1887

Peppard Seed Co.

Kansas City, Mo.

If for delivery, the name and address of the party to whom the seeds are to be delivered.
 The kind and amount of each separate kind of seed.
 Name of the truck driver and truck line making delivery.
 Seed treated with fungicides, or any substance likely to be poisonous to human beings or animals, shall show on the label the words "Poison Treated" in not less than ¼ inch face red type, and it shall be unlawful to sell such seed for use or for processing either for human or animal consumption.
 Seeds containing more than 200 noxious weed seeds per pound shall be labeled in red ink in not less than 12 point type "EXCESSIVE NOXIOUS WEEDS."
 Worthless seed (seed which falls below the limits fixed by the Florida Seed Law and the regulations governing it) may not be given away or sold for planting purposes.
 Oats consisting of mixed varieties shall

- ourposes.
- purposes.
 (1) Oats consisting of mixed varieties shall not be sold for planting purposes.
 (m) Different varieties of the same kind of seed, when in quantities of less than 5%, will be considered as other crop

(n) Brand names, designs, grades, or pictures indicating a condition or quality, other than that required on the analysis tag, or indicating contradictions to any part of the analysis, shall not be permitted.

part of the analysis, shall not be permitted.

(o) No agricultural seed, except grasses, unscarified legumes such as clovers, alfalfa, Alyce clover, crotalaria, chickpea, and kudzu, garden seed listed in The Standards for Germination, and seed released by the United States Customs shall be offered for sale if the germination percentage is below sixty.

(p) Tolerances shall be recognized between the percentages or rate of occurrence found by analysis, test, or examination, in the administration of the act as referred to in Section 201.59 of the Federal Seed Act.

(q) The use of the disclaimer or non-warranty clause in any invoice advertising, labeling written, printed or graphic matter pertaining to any seed shall not constitute a defence, or be used as a defence in any way in any prosecution or in any proceeding for confiscation of seeds brought under the provisions of this act, or the rules and regulations made and promulgated thereunder.

(Long leaf pine—Pinus palustris; slash pine P. caribaea; loblolly pine—P. taeda; short leaf pine—P. echinata).

(1) Technical generic and specific names in official use by the United States Department of Agriculture.

(2) State and county of origin.

(3) Date of collection-month and year.

(4) Name of collector.

- (5) Percentage of purity of whole, normal seeds, with or without wings, of the species concerned, if based on seeds with wings attached it shall be so stated.
- (5) Percentage of other species if present.
- (7) Percentage of germination. Test shall have been completed within a nine month period, exclusive of the month in which it was completed.

Prohibits the sale, offering or exposing for sale of any agricultural, vegetable or certain tree seeds-

- (1) Unless the test for germination shall have been completed within a nine month period, exclusive of the month in which it was completed.
- (2) Containing primary noxious weed seeds. Subject to tolerances.
 (3) That have been treated with poisonous materials unless the labels are marked with ½ inch red letters "POISON TREATED."
- TREATED."

 (4) Containing over 100 primary noxious weed seeds per pound.

 (5) Containing over 200 secondary noxious weed seeds per pound.

GEORGIA

Law 1941—Regulations 1943

SIS TAG OR CONTAINER.

(A) Agricultural seeds. Every lot of 5 pounds or more.

- (1) Commonly accepted name of:
 a. Kind or variety, and
 b. Kind and type.
- (2) Lot number or other lot identification.
- (3) Percentage of pure seed.
- (4) Percentage of inert matter.
- (5) Percentage of weed seeds. Prohibited if in excess of 2½%. Dallis grass and carpet grass 5%.
- (7) Origin, if unknown it must be so stated.
- Name and address of person who labeled the seed, or who sells, offers or exposes said seed for sale.
- (10) Name and number per pound of primary and secondary noxious weed seeds present singly or collectively in excess of:
 (a) One in 5 grams (see p. 106, Group B)

 - (b) One in 10 grams. (c) One in 25 grams. (d) One in 100 grams.
- (11) Percentage of: (Regulation)
 a. Germination
 b. Hard seeds
 c. Date of test

(B) Mixed Agricultural Seeds. Every lot of 5 pounds or more.

Same as for unmixed seeds, except it must be called "Mixed" or a "Mixture" and the information required under items (A) 1 and 3 shall be given for each agricultural seed present in excess of 5%, in the order of its

$INFORMATION\,REQUIRED\,ON\,ANALY-\,\,(C)\,\,Hybrid\,\,seed\,\,corn.\,\,Every\,\,lot\,\,of\,\,5$ pounds or more.

In addition to the information required under section (A) the following additional information shall be given:

(6) Percentage of other agricultural seeds. (D) Vegetable seeds. Every lot of 5 pounds or more.

- (1) Name of kind and variety.
- (2) For seed which germinates less than the standard last established by the Commissioner of Agriculture. (See page 102 for standards.)

 a. Percentage of germination, exclusive

 - Percentage of germination, exclusive of hard seeds.
 Percentage of hard seeds.
 Month and year of test. Test shall have been completed within a nine month period exclusive of the month in which the test was completed.
 Marked "BELOW STANDARD" in not less than 8-point type.
- (3) State where grown.
- (4) Name and address of person who la-beled the seed, or who sells, offers or exposes said seed for sale.
- (5) Seed which falls more than 20% below standard cannot be sold.

(E) Certain Tree seeds. Every lot of 5

NOXIOUS WEEDS.

Primary noxious weeds.

PROHIBITED SUBJECT TO TOLERANCES

tormation shall be given:

(1) Name and address of the party who grew the seed, or is responsible for the distribution.

(2) Variety and kind of foundation seed stock used in its production.

(3) Name or designation under which each lot will be sold.

(4) Length of growing season in days, from germination to maturity.

Bindweed—Convolvulus sp.—Sorghum halepensis; Wil Allium vincale; nut grass—Agropy muda grass—Cynodon dact tle—Cirsium arvense; dod Bindweed—Convolvulus spp.; Johnson grass—Sorghum halepensis; Wild onion or garlic—Allium vineale; nut grass—Cyperus rotundus; quack grass—Agropyron repens; Bermuda grass—Cynodon dactylon; Canada thistle—Cirsium arvense; dodder—Cuscuta spp.

Corn cockle—Agrostemma githago; coffee weed—Cirhorium intybus; darnel-Lolium temulentum; cheat or chess—Bromus spp.; sand spur—Cenchrus pauciflorus; rough pig weed—Amaranthus retroflexus; plantains—Plantago spp.; wild mustard—Brassica spp.; bitter weed—Helenium tenuifolium.

FARMERS are exempt from complying with the provisions of this act unless they are selling their seed outside the county where grown, then each container must be tagged,

grown, then each container and grown, then grower.

(1) Name of kind and variety.

(3) Calendar year harvested.

(4) If containing undesirable or noxious weeds it must be so stated. If a dealer purchases seed from a farmer in his trade territory he may sell it, complying with the same provisions as required of the farmer.

SHIPMENTS

Every lot of seed covered by this act being shipped shall be accompanied by a bill of lading or other evidence giving:

(1) Name and address of consignor and consignee.

(2) Class and amount of each being transported.

SHARE YOUR A-1 FINE SEED SEPARATOR With Your Fellow Seed Men

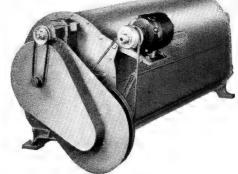
pounds or more.

We can furnish only a small part of the A-1 Fine Seed Machines that seed houses wish to buy. Yet there is an urgent need for abundant supplies of good, clean seed so we may have the big crops necessary to feed America and her allies. Your A-1 Fine Seed Separator saves 75% of the good seed that other machines waste with the tailings. When you share your A-1 with a fellow seed man, and help him save valuable seed that would otherwise be wasted, you are making an important contribution to your country's cause.

The unique "square shouldered" indents of the A-1 cylinders provide "human hand" accuracy that ordinary machines can not approach. The unlimited flexibility of the adjustable trough and variable speed drive assure outstanding accuracy on a great variety of seeds.

SUPERIOR SEPARATOR CO

1179 15th Ave. S. E., Minneapolis, Minnesota



for hybrid seed corn, grain cleaning and grading equipment for mills, malt houses, seed houses, country and terminal elevators.

Removes Canadian thistle from alsike, quack grass from sweet clover, dodder from carrot seed, sour clover from burr clover, seeds from rye grass, grasshopper dirt from timothy, pigweed and catchfly from alfalfa. The separations are positive, rapid and minutely accurate. "'Hair splitting" adjustments are instantly and accurately made without fussing or quessing.

"STOP SALE" orders shall be issued and enforced by the Commissioner of Agriculture to the owner or custodian of any lot of agricultural, vegetable or certain tree seeds which are in violation of any provisions of this act which shall prohibit the further sale of such seeds until that officer has evidence the law has been complied with. Any lot of seed, the sale of which has been prohibited as provided in this paragraph, the owner or custodian shall have the right to appeal from such order to a court of competent jurisdiction, where such seed are found, praying for a judgment as to the justification of said order, and for the discharge of such seed from the order in accordance with the findings of the court.

SEIZURE. Any lot of agricultural vegetable

ings of the court.

SEIZURE. Any lot of agricultural, vegetable or certain tree seeds not in compliance with the provisions of this act shall be subject to seizure on complaint of the Commissioner of Agriculture to a court of competent jurisdiction in the area in which the seed is located. If the court finds the seed to be in such violation of the act and orders its condemnation it shall be, denatured, processed, destroyed, relabeled or otherwise disposed of in compliance with the laws of the state; Provided, in no instance shall such disposition be ordered by the court without first having given the claimant an opportunity to apply to the court for the release of said seed or permission to process or relabel it to bring it into compliance with the act.

HYBRID SEED CORN—the term means the first generation seed of a cross produced by controlling the pollination, and by combining two, three, or four inbred lines, or by combining one inbred line or a single cross with an open pollinated variety. Hybrid designations shall be treated as variety names.

brid designations shall be treated ames.

STANDARDS OF LESPEDEZA. All tags and invoices marked to show the quality. Regulations effective until July 1, 1943.

1. FIRST QUALITY. Purity minimum 99%, weeds maximum one half of one percent, germination not less than 75% and not more than 15% hard seeds, containing not more than 100 PRIMARY or SECONDARY NOXIOUS weed seeds per pound.

2. SECOND QUALITY. Purity minimum.

or SECONDARY NOATOCS were seeds per pound.

2. SECOND QUALITY. Purity minimum 96%, weeds maximum 2½%, germination not less than 60% and not more than 20% hard seeds, containing not more than 200 PRIMARY or 400 SECONDARY NOXIOUS weed seeds per pound. pound.

SEED LABORATORY

Department of Agriculture, Atlanta. Ercelle Fuller, analyst in charge.

ENFORCEMENT

Department of Agriculture, Atlanta, Georgia. Tom Linder, Commissioner of Agriculture. C. Reynolds Clark, State Chemist.

IDAHO

Law of 1931, Amended 1939

INFORMATION REQUIRED ON ANALYSIS TAG OR CONTAINER.

(A) Agricultural Seeds. Every Lot.

- 1. Name of seed.
- Percentage of pure seed.

 Name of noxious weeds present.
- Germination of non-leguminous plants, together with the date of test.
- 6. Where grown. 7. Name and address of vendor.

B) Mixtures. Every Lot.

- That such seed is a mixture.
 Name of each kind present in proportions of SEED LABORATORY AND TESTS 5% or more.

 Seed Laboratory, College of Agriculture,
- Name and number of noxious weeds.
- Percentage of inert matter.
 Percentage of germination of non-leguminous plants together with date of test.

(C) Vegetable Seed.

Classed as agricultural seeds; label as under (A) above.

(D) Flower Seeds.

Classed as agricultural seeds; label as under (A) above.

NOXIOUS WEEDS

Prohibit any: Quack grass—Agropyron repens; Canada thistle—Carduus arvensis; buckhorn plantain—Plantago lanceolata; per-

ennial sow thistle—Sonchus arvensis; hoary cress—Lepidium draba, Lepidium repens, Hymenophysa pubescens; wild morning-glory—Convolvulus arvensis and Convolvulus sepium; spurge—Euphorbia corollata, Euphorbia esula, Euphorbia cyparissias; yellow toad flax—Linaria vulgaris; perennial ground cherry—Physalis subglabrata; Russian knapweed—Centaurea picris.

Prohibited in greater proportion than one seed of any or all to 10,000 seeds of the agricultural seed being offered for sale.

Wild mustard—Brassica spp.; wild oats—Avena fatua; dodder—Cuscuta spp.; corn cockle—Agrostemma githago; puncture vine—Tribulus terrestris; frenchweed—Thlaspi arvense.

Seed Laboratory, College of Agriculture, Boise

Mr. E. K. Chaffee, Seed Analyst. Fees—Purity tests, 25 cents; Germinat on tests

ENFORCEMENT

H. L. Spence, Jr., State Seed Commissioner Agronomy Extension Service, University of Idaho, Boise, Idaho.

SCREENINGS

All screenings, removed during the process of cleaning field, flower or garden seed containing any seeds of noxious weeds shall be destroyed or devitalized before leaving the place where or devitalized per cleaning occurred.

ILLINOIS

Law 1941 Rules and Regulations 1942.

INFORMATION REQUIRED ON ANALYSIS TAG OR CONTAINER.

(A) Agricultural Seeds. Every lot.

- (1) Commonly accepted name of:
 - a. Kind or,
 - b. Kind and variety or,
 - c. Kind and type.
- (2) Lot number or other lot identification.
- (3) Percentage of pure seed.
- (4) Percentage of inert matter.
- (5) Percentage of weed seeds. Prohibited if in excess of 2%.
- (6) Percentage of other agricultural seeds.
- (7) Percentage of:
 - a. Germination, exclusive of hard seed.
 - b. Hard seeds.
 - Month and year test was completed. The test for germination shall have been completed within a nine month period, exclusive of the month in which test was completed.

- Following a. and b. the additional statement "Total germination and hard seed" may be given if desired.
- (8) Origin of alfalfa, red clover and field corn (except hybrid), if unknown it must be so stated.
- Name and address of the person who labeled the seed, or who sells, offers or exposes said seed for sale.
- (10) Name and number of each kind of secondary noxious weeds, per ounce in groups Ba and Bb, and per pound in groups Be and Bd when present singly or collectively in excess of:

 1 in 5 grams.

(See page 106, Group B)

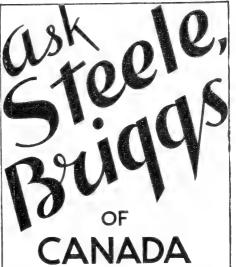
- 1 in 10 grams.
 1 in 25 grams.
 1 in 100 grams.

- The name of any primary noxious weed seed present in the proportion of:

 1 in 50 grams in agricultural seeds of groups Ba & Bb (page 106).

 1 in 150 grams in agricultural seeds of group Bc.

 1 in 1 pound in agricultural seeds of group Bd.



ALFALFA VARIEGATED ALFALFA GRIMM SWEET CLOVER

ALSIKE CANADIAN RED CLOVER CANADIAN BLUE GRASS SLENDER WHEAT GRASS **BROME GRASS CRESTED WHEAT GRASS**

both Fairway and Forage Strain

STEELE, BRIGGS SEED CO., Limited Toronto, Winnipeg, Regina CANADA

Contract GROWERS

TOBACCO EPP EGG PLANT PUMPKIN

Yellow Potato Onion Sets White Multiplier Onion Sets Yellow Multiplier Onion Sets Korean and Sereca Lespedeza

Write for Prices and full information

J. P. SNAPP & SON LIMESTONE, TENNESSEE

WHOLESALE SEED GROWERS

EST. 1907

113

(B) Mixtures of Agricultural Seeds. Every lot.

Same as for unmixed agricultural seed, except that it must be called "Mixed" or a "Mixture" and the information required under items (A) 1, 3 and 7 shall be given for each component present in excess of 5% in the order of its predominance.

(C) Vegetable Seeds. Every lot.

- (1) Name of kind and variety.
- (2) For seed which germinates less than the standard last established by the Director of Agriculture. (See page 102 for standard) ards.)
 - a. Percentage of germination, exclusive of hard seed.
 - b. Hard seeds.
 - b. Hard seeds.
 c. Month and year test was completed. The test for germination shall have been completed within a 9 month period exclusive of the month in which the test was completed.
 d. The word "BELOW STANDARD" in not less than 8-point type.

 - Name and address of the person who labeled the seed, or who sells, offers or exposes said seed for sale.

Prohibits the sale, offering or exposing for sale any agricultural or vegetable seed

Unless the test for germination has been completed within a nine month period, exclusive of the month in which the test was completed.

Agricultural Seed Only.

- (2) Agricultural seeds containing in excess of 2% weeds.
- (3) Agricultural seeds containing primary noxious weed seeds, singly or collectively, in excess of 1 in 50 grams of the seeds in groups Ba and Bb and in excess of 1 in 150 grams of the seeds in group Bc, and in excess of 1 in a pound of the seeds in group Bd (page 106), (Vegetable seeds exempt).
- (4) Agricultural seeds containing secondary noxious weed seeds, either singly or collectively, in greater proportion than 1 to 1,000 agricultural seeds.

NOXIOUS WEEDS.

PRIMARY NOXIOUS WEEDS

PROHIBITS IF IN EXCESS OF 1 IN 50 GRAMS, 1 IN 150 GRAMS AND 1 IN

A POUND. Canada thistle—Cirsium arvense thistle—Sonchus Perennial sow thistle—Sonchus arvensis Field bindweed—Convolvulus arvensis Leafy spurge—Euphorbia esula Russian knapweed—Centurea picris Hoary cress—Lepidium draba.

SECONDARY NOXIOUS WEEDS

PROHIBITS IF IN EXCESS OF 1 to 1,000 AGRICULTURAL SEEDS.

Curled dock-Rumex crispus Wild garlic—Allium spp.
Dodders—Cuscuta spp.
Bullnettle—Solanum carolinense
Buckhorn—Plantago lanceolata Quack grass—Agropyron repens
Wild carrot—Daucus carota
Wild Mustard—Brassica spp.
Johnson grass—Sorghum halepense
Ox-eye daisy—Chrysanthemum leucanthe-

STOP SALE AND SEIZURE

The authorized agents of the Department of Agriculture shall seize or prohibit the sale of any lot of agricultural or vegetable seed being sold, offered or exposed for sale which appears to be in violation of this act or to fall below the statement on the label or tag. Said seed shall not be sold, offered or exposed for sale for seeding purposes until it is released by the Department of Agriculture, provided that the right to appeal to a court of competent jurisdiction to review any order, rule or regulation shall exist in all cases. Any seed, seized in accordance with the provisions of this act, found by a court of competent jurisdiction to be in violation of any

of the provisions thereof may be disposed of by the Department of Agriculture.

- a. By sale for the purpose of recleaning.
- By delivery to the owner, provided he has appeared as claimant thereof and paid the court costs and fees and all other necessary expenses in connecother necessary expenses in connection with the seizure of the seed, and has executed and delivered a bond, with good and sufficient sureties, conditioned that the seed will not be sold or disposed of contrary to any provisions of this act. By destruction.

LABORATORY AND ENFORCEMENT

State Department of Agriculture. Charles H. Keltner, Superintendent of Division of Plant Industry, Springfield.

Tests—Residents permitted 5 free tests for both purity and germination.

Tests of clover, alfalfa, lespedeza, timothy, vetch, sudan grass, rape, and millet charges shall be 50 cents for purity and 50 cents for germination. Chaff grasses \$1.00 for purity, and \$1.00 for germination. Uncleaned redtop not permitted on free list purity and germination \$5.00.

Regulations (November1, 1942)

Regulation I

Seed in storage, in bins or other containers in salesroom, storeroom or warehouse, unless otherwise labeled, shall be considered offered or exposed for sale for seeding purposes in Illinois and shall be subject to the provisions of the seed law.

Regulation II

Agricultural seeds for seeding purposes stored in bulk or bins or tanks shall be labeled by attaching a tag or label to the bin at the entrance. Each portion of seeds sold from this bulk for seeding purposes shall be accompanied by an exact copy of the label attached to the container of the bulk lot.

Regulation V

When the number of mottled seed in sweet clover seed is in excess of 1.3%, the seed

shall not be considered white blossom sweet clover and shall be labeled as sweet clover or a mixture of White Blossom and Yellow Blos-som Sweet Clover and the percentage of each given.

Regulation VI

Hybrid Corn. Definition: "Hybrid Seed Corn is the seed of corn resulting from the first cross fertilization involving inbred lines of corn and/or their combinations, the inbred lines having been self-fertilized until they are reasonably pure."

To sell seed of corn labeled "Hybrid Corn" without giving proper and indisputable evidence that it complies with the above definition shall constitute a violation of the Illinois Seed Law.

Regulation VII

Certified and Registered Seed. Such seed must have been produced and labeled in accordance with the procedures and in compliance with the rules and regulations of an officially recognized seed-certifying agency. The Illinois Crop Improvement Association is recognized as the certifying agency in Illinois.

Regulation VIII

Recleaned Seed. Agricultural seed shall be considered recleaned if the total inert matter and weed seeds shall not exceed 20% of the sample in the case of Bluegrasses; 15% in case of Red Top, Bent Grasses, Orchard Grass and Brome Grass; and 3% in all other agricultural seeds. agricultural seeds.

Regulation XI

Regulation XI

Inasmuch as the sale of agricultural seeds (vegetable seeds exempt) containing any of the primary noxious weed seeds in greater number than 1 to 50 grams in the seeds of groups Ba and Bb, 1 to 150 grams in the seeds of group Bc, and 1 to the pound in the seeds of group Bd (page 106), is prohibited, the presence of any of these weed seeds, if present in smaller amounts than specified above, shall be shown on the tag or label.

Section 40 of the Criminal Code of the Illinois statutes prohibits the bringing into this

Section 40 of the Criminal Code of the Illinois statutes prohibits the bringing into this state, seeds of Canada Thistle, Perennial Sow Thistle, European Bindweed, Russian Knapweed and Leafy Spurge.

WORLD'S LARGEST SEED CORN PLANT



Our new plant located at San Jose, Illinois (25 miles south of Peoria), has a drying capacity, normal season, of 145,000 bushels. Seed storage capacity 184,000 bushels. 63 drying bins holding from 550 bushels to 1,150 bushels each. Equipped with the newest and best machinery we can buy. Thirty-five years' experience in producing high-yielding seed corn. 14 leading hybrids, mostly certified. We produce our own inbreds, single crosses and four-way crosses.

Flat grades \$3.50 to \$7.75 per bushel, subject to dealers liberal discount. Send for new catalog. Agents wanted: some good territory still open. Write for wholesale carload prices,

KELLY SEED COMPANY

PEORIA, ILLINOIS

SAN JOSE, ILLINOIS

TO HELP PERPETUATE V GARDENS

TO RELEASE LABOR

TO HELP FEED THE NATION

TO HELP FEED

Write for favorable leasing terms and low packet prices

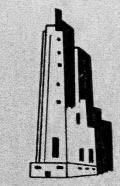


MADE SEED PACKET NES AUTOMATIC SEED PACKET NES FILLING AND SEALING MACHINES

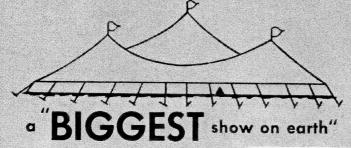
THE BROWN BAG FILLING MACHINE CO., Fitchburg, Mass.

just as there is

a f-a-s-t-e-s-t plane



a TALLEST building



SO TOO IS THERE A

Those who buy their seed carefully know that it yields better crops, is uniformly excellent, always dependable. Thousands play safe and buy it every year, declaring that it has no equal.

85 Varieties

- FIELD
- SWEET
- ENSILAGE
- HYBRIC

SEED CORN

The O&M SEED Company



O & M Oats — 1942 Crop Yield Over 80 bushels per acre



A FINEST SEED . . . and it's O & M!

Now Featuring

U. S. 13 lowa 939 Ind. 608C O-39 HYBRIDS

Write for prices on car lots or less

O & M Seed Oats
COLUMBIA GRAY SEED
OATS
LENROC SEED OATS
BOONE SEED OATS

GROWERS Green Springs, Ohio

YOUR DOLLARS SOWN IN BONDS TODAY WILL ASSURE THE HARVEST OF PEACE TOMORROW

19

1111



Ladak Alfalfa Seed

. . . a hardy, wilt-resisting strain especially adapted to areas that require a heavy first cutting; and,

Certified Midland & Cumberland Red Clovers

. . . are grown to the same, exacting standards as Idaho Grimm, and are marketed in sealed and certified bags under the BLACKFOOT BRAND name. Place your orders NOW!

Growing Grimm alfalfa seed is important business in Idaho, and BLACKFOOT BRAND Idaho Grimm is the best that Idaho produces.

Selling Grimm, BLACKFOOT BRAND, is good business for every alfalfa seed dealer who wants to make the most year in and year out profit.

Sells Fast - Repeats Often

BLACKFOOT BRAND is profitable because your farmer customers know it is DEPENDABLE. They pay a premium for it and come back for more because THEIR profit lies in what they cut or feed. BLACKFOOT BRAND cuts and feeds more per acre because it is hardy, resists winter-kill and consistently grows heavy stands.

This reputation for dependability has been developed by more than 22 years of careful, state-inspected and state-certified growing and processing.

Regular, year-after-year advertising has helped create, expand and maintain the steady demand for BLACKFOOT BRAND—will continue to assist in moving it for you at a satisfactory profit.

Make your alfalfa seed business a GRIMM one. Order now from-

IDAHO GRIMM
Alfalfa Seed Growers Association
Blackfoot, Idaho

INDIANA

Law 1941 and Amendments and Rulings to January 1, 1939

INFORMATION REQUIRED ON ANALYSIS TAG.

(A) Agricultural Seeds. Use Indiana Tags A or B. Every lot of one pound

- 1. Commonly accepted name of kind and variety. When not known so state by using word "unknown."
- 2. Percentage of pure seed.
- 3. Percentage of inert matter.
- 4. Percentage of weed seeds. Prohibit if in excess of 3%.
- 5. Percentage of other agricultural seeds.
- 6. Percentage of:

 - a. Germination.
 b. Hard seed.
 c. Month and year of test.
- Locality where grown. If unknown it must be so stated by using the word "un-known."
- Name and address of person or firm who labeled seed, or who sells, offers or exposes seed for sale.
- 9. Name and number of secondary noxious weeds per pound. If present in excess of ½ of 1 percent seed is prohibited from

(B) Mixtures. Use Indiana Tag C. Every lot of one pound or more.

Same as for unmixed agricultural seeds except that it must be called a "Mixture" and the information required under items (A) 1, 2 and 6 shall be given for each agricultural seed present in excess of 5%. The locality where grown is not required.

(C) Vegetable Seed. Use Indiana Tag B. Every lot of one pound or more.

All garden and truck crops included under agricultural seeds. See (A) above.

Label as above under (A).

Prohibits the Sale, Offering or exposing for Sale of:

- Agricultural or vegetable seed containing Primary Noxious Weeds subject to tolerances.
 Agricultural or vegetable seed containing more than ½ of one percent of Secondary Noxious Weeds.
 Agricultural or vegetable seeds containing more than 3% of weeds.

NOXIOUS WEEDS

Primary Noxious Weeds

PROHIBITS SEED CONTAINING ANY SUBJECT TO TOLERANCES.

Canada thistle (Cirsium arvense).
Canada thistle (Cirsium arvense).
Field bindweed (Convolvulus arvensis).
Johnson grass (Sorghum halepense).
Perennial sow thistle (Sonchus arvensis).
Quack grass (Agropyron repens).
Wild garlic (Allium vineale).

Secondary Noxious Weeds

PROHIBITED IF PRESENT IN EXCESS OF $\frac{1}{2}$ OF ONE PERCENT.

Bitter wintercress (Campe barbarea). Bracted plantain (Plantago aristata).

Buckhorn (Plantago lanceolata). Common plantain (Plantago major and ru-

Corn cockle (Agrostemma githago).

Curled dock (Rumex crispus).

Dodder (Cuscuta spp.).

Field peppergrass (Lepidium campestre).

Horsenettle (Solanum carolinense).

Mustard (Brassica arvensis). Oxeye daisy (Chrysanthemum leucanthemum).

Red sorrel (Rumex acetosella).

Wild carrot (Daucus carota).

CONDEMNATION OF SEED.

Any lot of agricultural seed not in compliance with the provisions of this act shall be subject to seizure on complaint of the state seed commissioner to a court of competent purisdiction in the area in which the seed is located. In the event that the court finds the seed to be in violation of the act and orders the condemnation of said seed, it shall be denatured, processed, destroyed, relabeled or otherwise disposed of in compliance with the laws of the state: Provided, That in no instance shall such disposition of said seed be ordered by the court without first having given the claimant an opportunity to apply to the court for release of said seed on promise to process or relabel to bring it into compliance with the act.

ANY GROWER of seed can sell his seed for sowing purposes, without labeling, if he has not advertised it other than by word of mouth or notice placed before his farm, provided he makes the sale and delivers the seed on his premises to the purchaser himself, provided the seed contains no Primary Noxious weeds, not more than ½ of one percent Secondary Noxious weeds, and not more than 3 percent of all weeds.

LABORATORY AND TESTS

Seed Laboratory at Lafayette is under the State Chemist and Seed Commissioner, cooperating with the U. S. Department of Agriculture. H. R. Kraybill, State Chemist and Seed Commissioner.

H. R. Kraybill, State Chemist and Seed Commissioner.
E. R. Clark, Associate Seed Technologist, U. S. Department of Agriculture.
Miss Regina Schulte, Analyst, U. S. Department of Agriculture.
Number of free tests for any one firm or person limited to two samples during any one month.

ENFORCEMENT AND REGULATIONS

All agricultural seed shipped or delivered in the State of Indiana, must have attached to each bag of one pound or more an Indiana State Label properly filled out. Tags are purchased from the Seed Commissioner as follows:

Style "A"—The orange colored tag, for unnixed alfalfas, clovers or grasses.

Style "C"—The green colored tag, for mixed aifalfas, clovers or grasses.

Tags for 100 pounds-8 cents each

Tags for 75 pounds—6 cents each
Tags for 50 pounds—4 cents each
Tags for 25 pounds—2 cents each

Style "B"—The uncolored manila tag for cereals, garden and truck crop seeds.

Tags for 200 pounds-8 cents each Tags for 200 pounds—8 cents each
Tags for 175 pounds—7 cents each
Tags for 150 pounds—6 cents each
Tags for 125 pounds—5 cents each
Tags for 100 pounds—4 cents each
Tags for 75 pounds—3 cents each
Tags for 50 pounds—2 cents each
Tags for 25 pounds—1 cent each

Ruling No. 1. In the case of leguminous seeds containing hard seeds, the actual percentage of germination should be given and may be followed by the percentage of hard seeds, but hard seeds cannot be included in the germination percentage.

Ruling No. 2. Wholesale seedsman is required to attach at least one Indiana State tag, properly filled out to each bag shipped to retailer. The retailer is then required to attach sufficient tags to cover the net weight before offering seed for sale.

Ruling No. 3. Hybrid Corn may be so labeled only when such seed represents the first generation of a cross between strains of different parentage and involving inbred lines of corn and/or their combinations.

Ruling No. 5. Effective January 1, 1939. White blossom sweet clover seed containing more than 5% of mottled seeds must not be labeled white blossom sweet clover. Such seed may be labeled sweet clover

12 edtop



Ging & Company

FARINA ILLINOIS

GEO. KELLER & SONS

Quincy, III.

K Brand Seeds

Wholesale Dealers

- **Red Clover**
- Mammoth Clover
- Timothy
- Alsike
- Alfalfa
- Sweet Clover
- Lespedeza

DAVENPORT SEED CO.

Headquarters IOWA Grown TIMOTHY

Car Lots a Specialty



Hardy Alfalfas Red Clovers Alsike Sweet Clover Soy Beans Hybrid Seed Corn

317 E. 2no St. DAVENPORT, IOWA

Headquarters

WESTERN GROWN

Kentucky

BLUE GRASS

We Buy and Sell

Dwarf Essex Rape, Red, White and Alsike Clover, White and Yellow Blossom Sweet Clover, Alfalfa, Blue Grass, Red Top, Millet, Cane, Kaffir, Hybrid Seed Corn and all seed grains.

Correspondence Solicited

Ouren Seed Company

Council Bluffs, Iowa

IOWA

Code of 1941

INFORMATION REQUIRED ON ANALY-SIS TAGS OR CONTAINER

(A) Agricultural Seeds (Unmixed) Every (G) Prohibits the sale, offering or expos-

(1) Name of:
(a) Kind, or
(b) Kind and variety, or
(c) Kind and type.
(2) Lot number or other lot identification.
(3) Percentage of pure seed.
(4) Percentage of inert matter.
(5) Percentage of weed seeds. Prohibited if in excess of 3%.

(5) Percentage of weed seeds. Prohibited it in excess of 3%.
(6) Percentage of other agricultural seeds.
(7) Percentage of:

(a) Germination, exclusive of hard seed.
(b) Hard seed.
(c) Month and year tested. Test shall have been completed within a 9 month period, exclusive of month in which test was made.

Following (a) and (b) Total Germination and Hard Seed may be given, if desired.
(8) Origin of alfalfa and red clover, if unknown it must be so stated.
(9) Warning as to danger if seed has been treated with a compound poisonous to man or farm animal.
(10) Name and address of person who labeled, sells, offers or exposes seed for sale.
(11) Name and number per ounce of each secondary noxious weed in groups (Ba), (Bb) and (Bc) and per pound in group (Bd) singly or collectively in excess of:

(a) 5 per ounce.
(See page 106, group B.) gly or collectively (a) 5 per ounce.

(See page 106, group B.)

(b) 3 per ounce.(c) One per ounce.(d) 5 per pound.

(B) Mixed Agricultural Seed. Every lot.

Same as unmixed seed, except that the information required under items 1, 3 and 7 shall be given, for each agricultural seed component present in excess of 5%, in order of its preponderance.

(C) Vegetable Seeds Not Included Under

(D) Seed sold by the grower on his farm are exempt from detailed labeling provisions if a placard is displayed or a written or printed statement supplied purchaser giving

(1) Percentage of germination.
(2) Month and year of test.
(3) Kind and number per ounce or pound of all secondary noxious weeds present.
(4) A guarantee that no primary noxious weeds are present.

(E) Information Required on labels of inoculants for leguminous plants.

(1) Kind of plants for which inoculant is to be

used.
Amount of seed content will inoculate.
Expiry date of inoculant.
Name and address of manufacturer or laboratory of origin or of vendor if he accepts responsibility for accuracy of the information.

(F) Seed Potatoes bearing blue certifica- ENFORCEMENT AND REGULATIONS tion label shall be

(1) Certified and bear label with the word CERTIFIED thereon.

(2) Certified by a constituted state authority or state organization recognized by the Iowa secretary of agriculture.

ing for sale of seed if,

Contains primary noxious weed seeds, subject to tolerances.
 Contains in excess of 3% of weed seeds.

Contains in excess of 5% of weed seeds. Screenings of agricultural seed containing less than 25% viable seed not marked "NOT FOR PLANTING PURPOSES," provided the claimant of said seed having been given the opportunity to apply to said court for the release of said seed.

NOXIOUS WEEDS
PRIMARY NOXIOUS WEEDS prohibited subject to tolerances given in the rules and regu-

PRIMARY NOXIOUS WEEDS prohibited subject to tolerances given in the rules and regulations.

Quackgrass—Agropyron repens.
Canada thistle—Cirsium arvense.
Perennial sow thistle—sonchus arvensis.
European morning glory—Convolvulus arvensis.
Horse Nettle—Solanum carolinense.
Leafy spurge—Euphorbia esula.
Perennial peppergrass—Lepidium draba.
Russian Knapweed—Centaurea repens.
SECONDARY NOXIOUS WEEDS
Wild carrot—Dacus carota.
Sour dock—Rumex crispus.
Smooth dock—Rumex acetosella.
Butterprint—Abutilon theophrasti.
Mustards—Brassica spp.
Cocklebur—Xanthium commune.
Buckhorn—Plantago lanceolata.
Dodders—Cuscuta spp.
SCREENINGS, from agricultural seed subject to act, shall be prohibited from sale unless labeled, if in containers, or marked on invoice if in bulk. "NOT FOR SEEDING PURPOSES."
Screenings shall include chaff, empty florets, immature seed, weed seed, inert matter and other material removed in any way, by cleaning or processing and containing less than 25% of viable agricultural seed.
"STOP SALE" orders may be issued by the secretary of agriculture or his agent if he believes any provision of the seed act has been violated and further sale prohibited until the officer has evidence the law has been complied with, or the seed has been removed from sales room open to the public, or an appeal from such order taken to a court of competent jurisdiction and the seed discharged from said order if in accordance with the finding of the court, the owner or custodian praying for a judgment of the justification of said order.
SEIZURE OF SEED. Upon the recommendation of the state secretary of agriculture or his duly authorized agents, the court of competent jurisdiction in the area in which the seed is located shall cause the seizure and subsequent denaturing, processing, or destruction to prevent the use for sowing purposes of any agricultural seed, the sale of which is prohibited due to (1) the presence of primary noxious weeds, (2) containing in excess of 3% of weeds.

SEED LABORATORY AND TESTS

Service Laboratory—Extension Department, Iowa State College of Agriculture, Ames, Iowa. Dr. R. H. Porter, Analyst. Test fees—To Iowa residents, 30 cents per sample and up depending on kind.

Department of Agriculture Inspection Laboratory—Des Moines, Iowa E. L. Redfern—Chief Chemist. Frank E. Wells—Seed Analyst.

KANSAS

Law of 1935, Amended 1939

INFORMATION REQUIRED ON ANALYSIS TAG.

(A) Agricultural Seeds. Every lot.

1. Commonly accepted name.

Percentage of pure seed.

Percentage of weed seed. 4. Percentage of inert matter.

Percentage of other agricultural seeds. (Regulation.)

(a) Germination, exclusive of hard seeds.
(b) Hard seeds.
(c) Date of test. Date cannot be over one year old.
7. Where grown, if unknown, so state.

8. Lot or stock number.

Name and number per pound of all noxious weed seeds present singly or collectively at the rate of more than 1/10 of one per cent by count.
 Name and address of vendor.

(B) Mixtures. Every lot.

- 1. Commonly accepted name and percentage of each agricultural seed composing the mixture, when present in amount of 5% or more.
- Percentage of weed seed. Percentage of inert matter.

Names and numbers per pound of all noxious weed seeds present, singly or combined, at rate of more than 1/10 of one per cent

- 5. For each kind present in excess of 5%
 - give:
 (a) Percentage of germination, exclusive of hard seeds

- (b) Percentage of hard seeds.
 (c) Date of test. Date cannot be over one year old.
- 6. Name and address of vendor.

(C) Vegetable seeds are not included in the law.

(D) Hybrid Seed Corn

"Hybrid Seed Corn" is defined as seed of the first generation of a cross involving one or more unrelated inbred lines or their combinations. An "inbred line" is a line of corn that has been developed as a result of not less than five generations of controlled self-fertilization or its equivalent.

Any corn offered as hybrid seed corn shall be registered by filing with the Secretary of the State Board of Agriculture a verified statement giving:

(1) Name or number by which the hybrid is designated.

(2) The complete pedigree of each hybrid.

(3) The name of the breeder who developed each inbred line in the combination.

In addition to the label requirements under (A) every lot shall be labeled with the name or number by which the hybrid is designated.

NOXIOUS WEEDS

PROHIBIT ANY: field bindweed—Convolvulus arvensis

PROHIBIT MORE THAN AN AVERAGE OF ONE SEED IN 5 GRAMS:
dodder—Cuscuta species; Johnson grass—
Sorghum halepense.

GIVE NAME AND NUMBER PER POUND IF MORE THAN 1/10 OF 1% BY COUNT EITHER SINGLY OR IN COMBINATION: Canada thistle—Cirsium arvense; corn cockle—Agrostemma githago; buckhorn plantain—Plantago lanceolata; wild mustards—Brassica species; French weed—Thlaspi arvense; quack grass—Agropyron repens; wild onion—Allium species; dock—Rumex species; wild oats—Avena fatua; bull nettle—Solanum carolinense; wild carrot—Daucus carota; chess or cheat—Bromus species; morning glory—Ipomoca species; ox-eye daisy—Chrysanthemum leucanthemum; hoary cress—Lepidium draba.

LABORATORY AND TESTS

Seed Laboratory at Manhattan, is maintained by the Kansas State Board of Agriculture, cooperating with the Kansas State College of Agriculture:
Paul Ijams, Director of Control Division.
J. W. Zahnley, Director of Laboratory.
Tests free to Kansas residents, but limited:
Wholesalers not more than 10 per month
Retailers not more than 10 per month
Planters not more than 5 per month
Not more than 1/3 of these allowances per any
one month, may consist of redtop, bluegrass,
lawn or pasture mixtures and others of similar
nature.

Fee for out of state samples to be set by State Board of Agriculture.

ENFORCEMENT AND REGULATIONS

Enforcement is under State Board of Agriculture, J. C. Mohler, Secretary, Topeka.
"The so-called "Disclaimer Clause," as now commonly printed is not permitted on a seed label in Kansas."

In the case of open-pollinated corn, the county where grown must be given.
Percentage of other crop seeds to be given on analysis tag, on unmixed seeds.
Seed held for more than one year must be retested.

retested.

KENTUCKY

Law of 1932

INFORMATION REQUIRED ON ANALYSIS TAG.

(A) Agricultural seeds. Use Kentucky official manila tag "A," except on cereals use yellow tag "B." Every Quack grass—A Cuscuta sp.; sort lot of one pound or more.

Commonly accepted name.
 Percentage of pure seed.
 Percentage of weed seed.
 Name and number of each kind of noxious weed seeds and bulbs present per ounce of agricultural seeds.
 Percentage of—

 (a) Germination, exclusive of hard seeds.
 (b) Hard seeds. (Regulation.)
 (c) Month and year of test.

 Where grown; if unknown give statement to that effect.
 Name and address of vendor.

(B) Mixtures. Every lot of 1 pound or more. Use Kentucky official blue tag "C".

That seed is a mixture.

Name and percentage of each kind of agricultural seed in excess of 5% by weight of total mixture.

agricultural seed in excess of 5% by weight of total mixture.

3. Percentage of weed seed.

4. Name and number per ounce of each kind of noxious weed seeds and bulbs present.

5. For each agricultural seed present in excess of 5% give—

(a) Percentage of germination, exclusive of hard seeds.

(b) Percentage of hard seeds. (Regulation.)

(c) Month and year tested.

6. Where grown; if unknown, give statement to that effect.

7. Name and address of vendor.

(C) Special Mixtures. Every lot of 1 pound or more. Use Kentucky official blue tag "C"

That seed is a mixture.
 Name of each agricultural seed, which is present in proportion of 5% of total mix-

Percentage of weed seeds.
 Percentage of inert matter.
 Name and number per ounce of each kind of noxious weed seeds and bulbs present.
 Name and address of vendor.

(D) Vegetable Seeds. Use Kentucky official yellow tag "B". Lettuce, peas, tomatoes, beans, onions, cabbages, carrots, melons and other truck

crops listed as agricultural seeds. Label as under (A) above.

Quack grass—Agropyron repens; dodder—Cuscuta sp.; sorrel—Rumex Acetosella; buck-horn—Plantago lanceolata; corn cockle—Agrostemma githago; wild onion—Allium vineale; Canada thistle—Cirsium arvense.

Added 1936-37
Ox-eye daisy—Chrysanthemum leucanthemum; Johnson grass—Sorghum halepense.

LABORATORY AND TESTS

State Seed Laboratory at the Experiment Station. Lexington.

tion, Lexington.

A resident of Kentucky may submit not more than 8 samples for free analysis during the calendar year and not more than 2 samples in any calendar month. Samples in excess of such numbers will be charged at the rate of:

50 cents to \$2.00 for purity tests; mixtures \$3.00

25 cents to 50 cents for germination

Non-residents' rates—purity \$3.00, germination \$1.00.

\$1.00.

W. A. Price, Head of Entomology and Botany Department, in charge of laboratory.

ENFORCEMENT

Thomas Cooper, Director of Agricultural Experi-

Thomas Cooper, Director of Agricultural Experiment Station.

W. A. Price, enforcement agent.
Purchase Kentucky Official Tags from Director of Agricultural Experiment Station, Lexington. at following prices:

Manila tag "A" for unmixed alfalfas, clovers, and grass; blue tag "C" for mixed seeds.
Tag for 100 pounds—8 cents each
Tag for 75 pounds—6 cents each
Tag for 50 pounds—4 cents each
Tag for 25 pounds—2 cents each
Yellow tag "B" for cereals, garden and truck crops.

rops.
Tag for 100 pounds—4 cents each
Tag for 75 pounds—3 cents each
Tag for 50 pounds—2 cents each
Tag for 25 pounds—1 cent each

REGULATION

The percentage of hard seed should be shown on the tag, but must not be included in the percentage of germination.
 Hybrid Seed Corn must bear on the label the name of the hybrid. If the hybrid is not well known, the name of the inbreds composing it, together with the number of days required for maturity shall be reported to the enforcement officer in charge of the Pure Seed Law.

GILT EDGE SEEDS

Wholesalers and Jobbers

of FIELD SEEDS

Specializing in

CLOVERS GRASSES

KOREAN LESPEDEZA

50 years in same location

NATIONAL SEED CO.

101 W. Main St. Louisville, Ky.

MEMBERS

AMERICAN SEED TRADE ASS'N. SOUTHERN SEEDSMEN'S ASS'N.





WESTERN GROWN BEANS

GROWING, HARVESTING AND CLEANING

ALL UNDER PERSONAL SUPERVISION

Growing Stations Montana and Wyoming

MAX F. WILHELMI

Seedsman

Wholesale Seed Grower

804 Massachusetts St.

LAWRENCE, KANSAS

LOUISIANA

Act of 1926 and Regulations

INFORMATION REQUIRED ON ANALYSIS TAG

- (A) Agricultural seed. Every lot of 10 pounds or more.

 - Commonly accepted name.
 Percentage of pure seed.
 Percentage of weed seed.
 Name and number per ounce of each kind of noxious weed seed present singly or collectively in excess of:

 (a) one seed in 5 grams.

 (See page 106, group A.)

 (b) one seed in 100 grams
 Percentage of germination with the month and year tested.

 Year in which seed was grown.
 Where grown if brought into the state.
 Name and address of vendor.

 - Name and address of vendor.
- (B) Mixtures of agricultural seeds of only 2 kinds. Every lot of 10 pounds

 - That seed is a mixture.

 Name and percentage of each kind of agri-

- cultural seed present in excess of 5% of total mixture.

 Percentage of weed seeds.

 Name and number per ounce of each kind of noxious weed seed present singly or collectively in excess of one seed in each
- Percentage of germination of each kind of agricultural seed present in excess of 5% together with the month and year tested, and year grown.

 Where grown if brought into the state.

 Name and address of vendor.

- Special Mixtures. Every lot of 8 ounces or more.

 - That such seed is a mixture.

 Name of each kind of agricultural seed present in proportion of 5% or more.

 Percentage of weed seed.

 Percentage of inert matter.

 Name and number per ounce of each kind of noxious weed present singly or collectively in 15 graps.
 - ly in 15 grams.

 Where grown if brought into the state.

 Name and address of vendor.
- (D) Vegetable seeds. Every lot of 10 pounds or more.

Included under agricultural seeds. Label as under (A) above.

NOXIOUS WEEDS

Dodder—Cuscuta epithymum; Johnson grass—Sorghum halepense; tie vine—Convolvulus arvensis, cockle bur—Xanthium canadense; cocoa grass—Cyperus rotundas; Bermuda grass—Cynodon dactylon; foxtail—Alopecurus geniculatus; ox-eye daisy—Rudbeckia hirta; wild mustard—Brassica arvensis; large dock—Rumex obtusifolius; crab grass—Digitaria sanguinalis; dandelion—Pyrrhopappus carolinianus; thistle—Sonchus species. Sonchus species.

LABORATORY AND TESTS

Seed Laboratory, Department of Agriculture, Baton Rouge, in charge of A. P. Kerr, State chemist.

chemist.

Commissioner of Agriculture may fix number of free samples to be tested in a period of time and may fix charges for tests of samples submitted in excess of those free of charge.

Enforcement under Commissioner of Agriculture, Harry D. Wilson, A. P. Kerr, enforcement agent, Baton Rouge.

MARYLAND

Law of 1941

INFORMATION REQUIRED ON ANALYSIS TAG OR CONTAINER

- (A) Agricultural Seeds (Unmixed). Every lot.

 - 1. Commonly accepted name of

 (a) Kind or

 (b) Kind and variety or
 (c) Kind and type.

 2. Lot number or other identification.

 3. Percentage of pure seed.

 4. Percentage of inert matter.

 5. Percentage of weed seeds.

 6. Percentage of other agricultural seed.

 7. Percentage of
 (a) Germination, exclusive of hard see

 - Germination, exclusive of hard seed.
 - (a) Germination, exclusive of hard seed.
 (b) Hard seed.
 (c) Month and year tested. Test shall have been completed within a nine month period exclusive of the month in which the test was made.
 Following (a) and (b) "Total Germination and Hard Seed" may be given if desired.
 Origin of Alfalfa, Red Clover and Field corn (except hybrid) if unknown must be so stated.

 - (except hybrid) it unknown must be so stated.

 Name and address of person who labeled, or sells, offers or exposes seed for sale.

 Name and number of each kind of noxious weed seed, per ounce in group B1 and B2 and per pound in groups B3 and B4 if present singly or collectively in excess of (a) one seed in five grams (see page 106, group B).

 - group B).

 (b) one seed in ten grams.

 (c) one seed in twenty-five grams.

 (d) one seed in one hundred grams.

INFORMATION REQUIRED ON

(A) Agricultural Seeds. Every lot.

ANALYSIS TAG

1. Name of seed.

(B) Mixed Agricultural Seed. Every lot.

Same as for unmixed seed except that the information required under Items (A) 1, 3 and 7 shall be given, in the order of its predominance, for each agricultural seed component present in excess of 5%. When more than one component is named the word "mixture" or "mixed" shall be used. be used.

(C) Vegetable Seeds.

- For containers of 8 ounces or more.

 (a) Lot number or other identification.

 (b) Name of kind and variety.
 - Percentage of
- (c) Percentage of

 1. Germination, exclusive of hard seed.

 2. Hard seed.

 3. Month and year tested. Test shall have been completed within a nine month period exclusive of the month in which it was completed.

 4. Name and address of person who labeled, or offers, sells or exposes said seed for sale.

 2. For containers of less than 8 ounces.

 (a) Name of kind and variety.

 (b) For seed which germinates less than the standard last established by the State Board of Agriculture.

 1. Percentage of germination, exclusive

 - Board of Agriculture.

 1. Percentage of germination, exclusive of hard seed.

 2. Percentage of hard seed.

 3. Month and year tested. Test shall have been completed within a nine month period exclusive of the month in which it was completed.

 4. Words "BELOW STANDARD" in not less than 8 point type.

 (c) Name and address of person who labeled, or offers, sells or exposes said seed for sale.

(D) Prohibits the sale, offering or exposing for sale of any agricultural or vegetable seed if,

The test for germination has not been com-pleted within a nine months period, exclusive of the month in which test was completed.

NOXIOUS WEEDS

Dodder—Cuscuta Spp.; Canada Thistle—Cirsium arvense; Quackgrass—Agroypron repens; Bindweed—Convolvulus arvensis; Johnson grass—Sorghum halepense; Wild garlic—Allium vineale; Bermuda grass—Cynodon dactylon.

"STOP SALE" orders may be issued by the au-thorized agent of the State Board of Agriculture

when he finds any agricultural or vegetable seed in violation of the provisions of this act which shall prohibit further sale of said seed until the agent has proof the law has been complied with. No "stop sale" order shall be issued or attached to any lot of seed without first giving the owner or custodian an opportunity to comply with the law or to remove seed from sale. An appeal law or to remove seed from sale. An appeal from such an order may be made to a court of competent jurisdiction where the seeds are found, praying for a judgment as to the justification of said order and for the discharge of such seeds from the order prohibiting the sale in accordance with the findings of the court.

SEIZURE OF SEED

Any lot of agricultural or vegetable seed not in compliance with the provisions of this act shall be subject to seizure on complaint of the authorized agent of the State Board of Agriculture to a court of competent jurisdiction in the area in which the seed is located. In the event the court finds the seed to be in violation of the law and orders the condemnation of said seed. the court finds the seed to be in violation of the law and orders the condemnation of said seed it shall be denatured, processed, destroyed, relabeled or otherwise disposed of in compliance with the laws of the state, but in no instance without first having given the claimant an opportunity to apply to the court for a release of said seed or permission to process or relabel it to bring it into compliance with this act.

SEED LABORATORY AND TESTS

Seed Laboratory at Agricultural Experiment Station, College Park, Maryland. Number of free tests to Maryland citizens determined by the person in charge.
F. S. Holmes, in Charge of Laboratory.

ENFORCEMENT AND REGULATIONS

Enforcement under State Board of Agriculture. Bermuda grass—while a "noxious weed" when present in any other kind of seed, may be sold as Bermuda grass.

(Not under law of 1941.)

MAINE Revised In 1919

- Percentage of pure seed.
 Name and amount (number per pound) of each kind of noxious weed.
 Percentage of germination together with the month and year tested.
- (B) Mixtures not included.

(C) Vegetable seed not included.

NOXIOUS WEEDS

Ball mustard—Neslia paniculata; bearded dar-nel—Lolium temulentum; bitter dock—Rumex obtusifolius; black mustard—Brassica nigra;

bladder campion—Silene latifolia; blue bur or stickseed—lappula echinata; blueweed—Echium vulgare; Canada thistle—Cirsium arvense; charlock—Brassica arvensis; chicory—Cichorium inybus; clover dodder—Cuscuta species; clustered dock—Rumex conglomeratus; common ragweed—Ambrosia artemisiifolia; common (annual) sow thistle—Sonchus oleraceus; corn cockle—Agrostemma githago; cow-herb—Saponaria vaccaria; daisy fleabane—Erigeron ramosus; false flax—Camelina sativa; field bindweed—Convolvulus arvensis; field penny cress—Thlaspi arvense; field (perennial) sow thistle—Sonchus

arvensis; great ragweed—Ambrosia trifida; Indian mustard—Brassica juncea; hare's-ear mustard—Conringia orientalis; king devil weed—Hieracium pratense; night-flowering catchfly—Silene noctifiora; orange hawk weed—Hieracium aurantiacum; ox-eye daisy—Chrysanthemum leucanthemum; perennial ragweed—Ambrosia psilostachya; rilgrass—Plantago lanceolata; rutabaga—Brassica campestris; small seeded false flax—Camelina microcarpa; spinyleaved or prickly sow thistle—Sonchus asper; sweet scabious—Erigeron annuus; tumble mustard—Sisymbrium altissimum; white campion—lych-

nis alba; wild carrot—Daucus carota; wild oats
—Avena fatua; wild radish— Raphanus raphanistrum; witch grass—Agropyron repens; yellow nistrum; witch grass—Agropyron repens; yellow dock—Rumex crispus.

SEED LABORATORY

Maine Agricultural Experiment Station, Orono. George P. Steinbauer, Analyst.

ENFORCEMENT

Department of Agriculture, Augusta. A. M. G. Soule, Chief of Division of Inspection.

MASSACHUSETTS

Law of 1938

INFORMATION REQUIRED ON ANALYSIS TAGS

- (A) Agricultural seed, every lot.
- Name and variety.
 Percentage of pure seed.
 Percentage of weed seed.
 Name and number per ounce of each kind of noxious weed seeds present singly or collectively in excess of call one seed in each 5 grams
 (See page 106, group A.)
 - (a) one seed in each 5 grams
 (See page 106, group A.)
 (b) one seed in each 25 grams
 (c) one seed in each 100 grams
 Germination together with month and year

 - of test.
 - Name and address of vendor.

(B) Mixtures of Agricultural seeds of not more than two kinds. Every lot.

- That such seed is a mixture.

 Name, variety and percentage by weight of each kind of agricultural seed in excess of 5% by weight of the total mixture.

 Percentage of weed seeds.

 Name and number per ounce of noxious weed seeds present singly or collectively in excess of one seed in each 15 grams.

 Percentage of germination of each kind of

agricultural seeds present in such mixture in excess of 5% by weight, together with the month and year tested.

6. Name and address of the vendor.

(C) Mixtures of Agricultural Seeds not

- included in the above. Every lot.
 - That the seed is a mixture.

 - That the seed is a mixture.

 The name, variety and percent by weight of each kind present in excess of 5% by weight of the total mixture.

 Percentage of weeds.

 Percentage of inert matter.

 Name and number per ounce of each kind of noxious weed seed present singly or collectively in excess of one seed in each 15 grams of such mixture.

 Percentage of germination of each kind of agricultural seed present in excess of 5% of the entire mixture together with the month and year tested.

 Name and address of the vendor.

(D) Vegetable seeds. Each separate container.

- Kind of seed and variety.
 Percentage of germination, together with the month and year tested provided such seed germination is less than the standard for such seed for the current year as established

- in Massachusetts. (See page 102 for stand-
- ards.)
 3. Name and address of vendor, packer or processor.

(E) Flower Seed. Each container.

- Kind of seed and variety.
 Name and address of vendor, packer or processor.

NOXIOUS WEEDS

Quack grass—Agropyron repens; Canada thistle—Cirsium arvense; dodder—Cuscuta species; wild mustard—Brassica species; English plantain—Plantago lanceolata.

SEED LABORATORY

Massachusetts Agricultural Experiment Station, Amassachusetts Agricultural Experiment Station, Amherst, F. A. McLaughlin, analyst in charge. Tests—Any person residing or doing business in this commonwealth shall have the privilege of submitting samples of seed for test subject to rules and regulations, including a reasonable fee for such test.

ENFORCEMENT

State Department of Agriculture, Commissioner of Agriculture, State House, Boston.

YOU MUST TAKE ADVANTAGE OF CHANGING CONDITIONS

> To Hold Your Business **And Increase Profits**

"JAY BE

World's Standard Grinder for Capacity, Economy, Durability

GREATER efficiency, more speed, bigger capacities, lower operating cost, to beat competition—that's the "JAY BEE" all-steel hammer mill.

For nearly a quarter century—the Bossert made "JAY BEE" mill outlasts 'em all, outgrinds 'em all. Heavy boiler-plate and alloy-steel construction makes the "JAY BEE" almost unbreakable. It grinds more feed at less cost per ton than any other hammer mill

From the finest whole wheat flour and corn meal, to every grain and roughage grown, the "JAY BEE" grinds to any degree of fineness, always cool, and uniform. It costs less to operate and maintain, and is practically free from repairs over a long period of years. Sizes and styles to meet every grinding requirement, from 12 H.P. to 200 H.P. with belt, V-belt, and directconnected drives. Batch mixers, corn crackers, stationary molasses mixers.

MAINTAIN SERVICE CONTACT WITH FARMERS

Seedsmen and custom millers have added greatly to their income. They fortify their local business with the "JAY BEE" Portable. They make any kind of feed from the farmer's crops right on his farm. This brings in new business, and helps hold and increase their sales of mixed feeds, concentrates, minerals, and molasses.

Investigate the profit possibilities at once. Write for descriptive literature, prices, terms, etc.

J. B. Sedberry, Inc., Dept. 78, Franklin, Tenn.—Utica, N. Y.

JOHN J. WOODS & SONS, JAY BEE SALES CO., KANSAS CITY, MO.

J. B. Sedberry Co., 2608 So. Wells St., Chicago, Ill.—A. E. Thompson Co., 718 Washington Ave., N., Minneapolis, Minn.—T. G. Holland, 474

Fairfax Road, Drexel Hill, Pa.—Jay Bee of Texas, 705 Ross Ave., Dallas, Texas—Jay Bee Sales Co., 395 Broadway, New York—Jackson, Tenn.—P. O. Box 853, Winston-Salem, N. C.—436 Starks Bldg., Louisville, Kentucky—The Lamiell Co., Greenwich, Ohio

MICHIGAN

Law 1941 and Regulations

INFORMATION REQUIRED ON ANALYSIS TAG OR CARTON

(A) Agricultural Seeds. One pound or

(1) Commonly accepted name.
(2) Lot number or other identification.
(3) Percentage of pure seed.
(4) Percentage of inert matter.
(5) Percentage of weed seeds.
(6) Percentage of other agricultural seeds.
(7) Percentage of:

Germination, exclusive of hard seed. Hard seed. Month and year of test.

(8) Origin of red clover, alfalfa, soy beans and field corn.
(9) Name and address of person who labels seed, or who sells, offers or exposes seed for sale.

tor sale.

(10) Name of each noxious weed seed present, singly or collectively, in excess of:

1 in each 5 grams.

(See page 106, group A.)

25 grams. 1 in each 1 in each 100 grams.

(B) Mixtures of alsike and timothy, alsike and white clover, red top and Timothy, alsike and red clover. One pound or more.

That such seed is a mixture.

(2) Lot number or other identification.

- (3) Name and percentage of each kind of agricultural seed present in excess of 5% of the total mixture.
 (4) Percentage of inert matter.
- (5) Percentage of weed seeds.

(6) Percentage of other agricultural seeds.

Percentage of:

a. Germination, exclusive of hard seed, for each kind of agricultural seed present in excess of 5% of the total.

b. Hard seed.
c. Month and year of test.

- (8) Origin of red clover, alfalfa, soy beans and field corn.
- Name and address of person who labels seed, or who sells, offers or exposes seed for sale.
- Name and number per pound of noxious weeds present.

C) Special Mixtures. Eight ounces or more.

(1) That such seed is a mixture.
(2) Lot number or other lot identification.
(3) Name and percentage of each kind present in excess of 5% of the total mixture.
(5) Percentage of weed seeds.
(6) Percentage of other agricultural seeds.
(7) Percentage of:
a. Germination, exclusive of hard seed, for each kind of agricultural seed present in excess of 5% of the total.
b. Hard seed.
c. Month and year of test.
(8) Origin of red clover, alfalfa, soy beans and field corn.
(9) Name and address of the person who labels seed, or who sells, offers or exposes seeds for sale.
(10) Name and number per pound of noxious weeds present.

(D) Lawn grass mixtures. Every lot.

(1) That seed is a mixtures. Every lot.
(2) Name and proportion of each ingredient seed present in quantity of 5% or more.
(3) Percentage of inert matter.
(4) Percentage of weed seeds.
(5) Percentage of other agricultural seeds.
(6) Percentage of germination of each kind of agricultural seed present in excess of 5% of the total mixture with the month 5% of the total mixture with the month and year tested.

Name and address of person who la-bels seed, or who sells, offers or ex-poses seed for sale.

(E) Vegetable seeds. Each separate container.

Kind and variety of seed.
 Percentage of germination together with month and year tested, if the germination is below the Michigan standard for that kind and variety. (See page 102 for standards.)

(3) Name and address of person who labels seed, or who sells, offers or exposes seed for sale.

(F) Hybrid Seed Corn.

Use of term "Hybrid," with seed corn, shall be restricted to first generation stock of a cross, the parentage of which involves one or more inbreds. In addition to the regular label requirements (A) every lot shall be labeled with the name or number by which the hybrid is designated and the vendor shall file with the Commissioner of Agriculture a statement giving the pedigree of the hybrid and name of the breeder who developed the inbred.

Prohibits the Sale, Offering and Exposing for Sale of-

Agricultural seed containing noxious weed seeds in excess of one weed seed to 2,000 agricultural seeds.

NOXIOUS WEEDS—Prohibited 1 2000 crop seeds.

Quack grass—Agropyron repens; Canada thistle—Cirsium arvense; dodder—Cuscuta species; mustards (charlock, black mustard and Indian mustard)—Brassica or sinapsis species; wild carrot—Daucus carota; bindweed—Convolvulus arvensis; perennial sow thistle—Sonchus arvensis; Hoary alyssum—Berters in the control of the control o

SEIZURE OF SEED

The Commissioner, his deputy or duly appointed agent may seize any lot of agricultural or vegetable seed which, in his opinion, is being sold, offered or exposed for sale contrary to the provisions of this act. If after analysis said seed were found to be in violation to this act the commissioner, his deputy or duly authorized agent shall make complaint before a justice of the peace in the township or city where such seed were seized. If said seed shall be found upon trial to be possessed for the purpose of being sold, offered or exposed for sale contrary to this act, the justice shall render judgment as in his discretion seems proper.

a. Seized seed to be forfeited to the state to be disposed of.

b. Defendant clean seed under reasonable restrictions imposed by the commissioner.

b. Detendant clean seed under reasonable restrictions imposed by the commissioner.
c. Defendant properly mark or label seed according to the requirements of this act. In any judgment so rendered, the defendant shall pay the court costs and the actual necessary expenses in the scizure of such seed before the seed is returned to him.

SEED LABORATORY

Department of Agriculture, Lansing. Chas. A. Stahl, seed analyst.

Fees—Field seeds, 50 cents; chaffy grasses, \$1.00; mixtures, 50 cents for each crop seed in excess of 5% (including germination). Germination only, 50 cents per test.

ENFORCEMENT AND REGULATIONS

Enforcement—Leo V. Card, Commissioner of Agriculture.
Regulations:
1. Mixtures—Any two or more kinds of agricultural seeds in quantities of 5% or more in the same lot shall constitute a "mixture." Agricultural seeds in mixture must be recent in the same lot shall constitute a "mixture." tures must be present in quantities of 5%

or more to be considered as a part of the

Hard seeds—Germination guarantee must not include the so-called "hard seed" as seed germinated. Additional information such as hard seeds is permissible on the tag. Permit hard seeds to be added to actual germination as "Probable live seed." 2. Hard seeds-

seed."
Michigan lawn grass grades (August, 1941)—Along with the regular analysis required under (D) in a conspicuous place, each package, bag, carton or bulk of mixed lawn seed meeting the requirements of grade A shall be labeled "Lawn Seed Michigan Grade A" and all meeting the requirements of Grade B shall be labeled "Lawn Seed Michigan Grade B." All mixed grass seed not meeting the requirements of Grade A or B must be designated as "Grass Seed Grade D" and must meet the requirements of Grade D. When making up mixtures, if the inert

When making up mixtures, if the inert matter in Grades A & B is less than the maximum allowed, additional Red Top maximum allowed, additional Red 109 may be added to make up the difference. Similarly in Grass Seed Grade D, as much as 5% Rye grass may be added. In all cases the excess of these components must be compensated by at least an equal amount of inert matter.

Classification of Grasses		
Group I (Turf Grasses) Kind of Seed	Mini- mum Purity	Mini mum Germ
Ky. Blue Grass (Poa pratensis). *Rough Blue Grass (Poa trivialis) European Red Fescue (Festuca	82% 90%	80% 70%
rubra-genuina) New Zealand Chewing Fescue	97%	80%
(Festuca rubra-fallax)	97%	70%
†Bent Grasses	97%	85%
White Clover	95%	\$92 %
Group II (Nurse Grasses)		
Red Top (Agrostis palustris, A. Alba)	92%	90%
Rye Grass (Lolium perenne and		
italicum)	97 %	90%
Group III (Special Purpose Grasses,)	
Seaside Bent (Agrostis palustris maritima)	97%	85%
pressa)	82%	85%
Annual Blue Grass (Poa annua)	82%	85%
Rough Blue Grass (Poa trivia- lis)	90%	70%
Hard Fescue (Festuca ovina duriuscula)	97%	80%
Fine Leaved Fescue (Festuca ovina, tenuifolia)	97%	80%
European Red Fescue (Festuca rubra-genuina)	97%	80%
Sheeps Fescue (Festuca ovina)	97%	80%
Creeping Bent Stoions	21 /0	00 70
Group IV (Filler Grasses) (Not		
recommended for lawn)		
Crested Dogtail (Cynosurus cris-	0.77.04	00.00
tatus)	97 %	80%
nemoralis)	80%	80%
Orchard Grass (Daetylis glo-	50 70	00 70
merata)	80%	80%
Meadow Fescue (Festuca elatior)	95%	90%
Timothy (Phleum pratense)	98%	90%

Note: Valuable in shady places are: Rough Blue Grass, Chewings Fescue, Velvet Bent (agrostis canina), Fine Leaved Fescue.

*Also a good Nurse Grass.

†Minimum Purity for South German Mixed Bent ‡Total germ. and Hd. Seeds.

Requi	rements ;	for Grade	2.5					
Grasses from	Group I Min.	Group II Max.	Shade Grasses Min.	Group III Max.	Rye- Grass Max.	Maxi- mum Inert	Maxi- mum Weeds	Germination
Grade A. Grade A f	OT	45%	• • • •	• • • •	15%	6.60	.40	Not less than standard
shade Grade B Grade B fe	32%	55%	48%	• • • •	15% 25%	6.60 10.40	.40 .60	Not less than standard Not more than 5% below std.
shade Grade D Grade D f		* * * *	20%	15%	25% 35%	10.40 14.20	.60 1.00	Not more than 5% below std. Not more than 15% below std.
shade .			20%	15%	35%	14.20	1.00	Not more than 15% below std.

MINNESOTA

Act as Amended 1941 and Regulations

INFORMATION REQUIRED ON ANALYSIS TAGS. USE MINNESOTA STATE TAGS. (Information In Not Less Than & Point Gothic Caps.)

(A) Agricultural seeds. One pound or more.

- Commonly accepted name and variety. Percentage of pure seed. Percentage of weed seeds. (Prohibit 2%)
- Percentage of weed seeds. (Prohibit 2%). Name and number per pound of certain primary noxious weed seeds when present singly and collectively in excess of 10 per pound. Prohibited if in excess of 25 per pound. See noxious weed section. (If less than 10 per pound can be marked "trace.") Percentage of germination together with the date of test. Test cannot be over 6 months old.

 Where grown (in case of corn the county). Name and address of vendor.

(B) Mixtures of field seeds. One pound or more.

The words "Mixed Seeds."

Name and percentage by weight of each kind of agricultural seed in excess of 5% of the total mixture.

Percentage of weed seeds (Prohibit 2%).

Name and number per pound of noxious weeds when present singly or collectively in excess of 10 per pound.

Percentage of germination of each kind of agricultural seed together with the date of test.

test.
6. Where grown.
7. Name and address of vendor.

(C) Special Mixtures. Eight ounces or more.

words "Special Mixture" or "Lawn 1. The

The words "Special Mixture."

Name (for Lawn grass mixtures—give the name and percentage) of each kind of agricultural seed present in excess of 5 percent.

Percentage of weed seeds.

Percentage of inert matter.

Number of seeds per pound of noxious the force of the percentage of t

Percentage of inert matter.
 Number of seeds per pound of noxious weeds. (except in lawn mixtures)
 Percentage of germination of each kind in excess of 5%. Test cannot be over 12 months old.
 Full name and address of vendor.

(D) Vegetable seed.

Not included under law.
Agricultural seed shall include the seeds
planted and grown in Minnesota for the production of root crops, grains, seeds, forage,
hay, and for green manure crops and lawns.

(E) Hybrid Seed Corn.

Definition—"Hybrid Seed Corn" shall be seed of the first generation of a cross involving two, three or four different inbred lines of corn or their combinations and shall be restricted to seed of single crosses, three-way crosses and double crosses, these in turn being defined as follows: follows:

(1) Single cross—The first generation of a hybrid between two inbred lines.

(2) Three-way cross—The first generation of a hybrid between a single cross and an inbred line.

(3) Double cross—The first generation of a hybrid between two single crosses.

Maturity Zones—The Dean and Director of Department of Agriculture of the University of Minnesota shall determine, establish and number or otherwise identify corn growing sections of the state and determine and publish for each section so established, the approximate number of days growing season required for corn from emergence of the corn plants above ground after planting to maturity.

turity.

Label—In addition to label requirements under (A) the label must state:

(1) Whether said hybrid corn is a single cross, three-way cross or double cross.

(2) The year, county and state in which it

was grown.

(3) The approximate number of days for maturity in the section in Minnesota where said corn is intended to be grown.

SCREENINGS

It shall be unlawful for any person to sell to the consumer, offer or expose for sale any screenings of any name or nature that have not been devitalized by grinding sufficiently fine to destroy all weed seeds, or otherwise devitalize







Fortunate are the owners of Myers Sprayers . . . for these efficient sprayers are not only famous for quality and reliability, but are backed by an unusual parts-replacement service.

If you own a Myers Sprayer whether it is one of the thousands used for greenhouses, nurseries, truck gardens, estates and golf courses, or a Myers Power Sprayer - you can be sure of obtaining replacement parts for it. Parts are available for every sprayer Myers has ever built. See your Myers dealer near you for parts and capable repair service.



F. E. MYERS 0 CO. and, Ohio "STOP SALE"

"STOP SALE"

The commissioner is authorized to seize and hold any lot, parcel, package or bulk of agricultural seeds or mixtures of the same found in violation of any provisions of the seed law or rules and regulations thereof until same have been complied with or said violation otherwise disposed of.

SEIZURE OF SEED

The commissioner upon seizing any agricultural seeds shall notify the person who was in possession of such seeds, or the owner thereof, or his agent, of such seizure, and return said seed to the consignor upon receipt of the expenses for transportation and also the expenses in handling, storing or caring for said seed, before same is billed for return shipment. If after 10 days said costs are not paid, the commissioner may confiscate said seed and destroy or otherwise dispose of it to prevent its use for seeding purposes and the net proceeds from the sale of such seed by the commissioner shall be transmitted to the State Treasurer.

IMPORTED SEEDS. It shall be unlawful to import or bring into the state or transport within the state any agricultural seeds unless each container shall bear a label giving—

1. Kind and variety of seed.

2. Percentage of purity.

3. Percentage of germination and date of test.

4. The state from which seed was shipped, in the state of the search is not a search of the search is the search of the search is the search is the search of search and date of test.

test.
The state from which seed was shipped, if corn, the county in which it was grown.
Name and address of person shipping

Seed.

In all other respects the seed shall conform to the act and the rules and regulations of the commissioner.

NOXIOUS WEEDS

Prohibited when in excess of 25 per pound, singly or collectively.

Quack grass—Agropyron repens; Canada thistle—carduus arvensis; dodders—cuscuta species; oxeye daisy—Chrysanthemum leucanthemum; buckhorn plantain—Plantago lanceolata.

Prohibited when in excess of 9 per pound, singly or collectively.

Perennial pepper grass—Lepedium draba; horse nettle—Solanum carolinense; Australian field cress—roripa or radicula austriaca.

tranan neu cress stranan austriaca.

Prohibit any—Creeping Jennie—Convolvulus arvensis. Leafy spurge—Euphorbia esula.

SEED LABORATORY AND TESTS

State Seed Testing Laboratory—University Farm, St. Paul. J. L. Larson, Chief Analyst. Fees for tests (5 free samples allowed during a year.) Germination—
25 cents—corn, peas, flax, beans, cereals, vetch and such larger seeds.
30 cents—alfalfa, clover, rape, sorghum, millet, Sudan grass, timothy and similar seeds, also vegetable and flower seeds.
40 cents—blue grass, redtop, rye grass, wheat grass, brome grass, fescues, tobacco, Reed Canary grass and similar smaller grasses.
Purity—

Purity-

Purity—
25 cents—cereals, buckwheat, flax, vetch and other seeds of similar size.
50 cents—millets, Sudan grass, alfalfa, alsike clover, red clover, sweet clover, rape, timothy, rye grass, cereal mixtures, slender wheat grass and seeds of similar character.
\$1.00—white clover, orchard grass, timothy and alsike mixtures, all clover mixtures and all uncleaned seeds.

alsike mixtures, all clover mixtures and all uncleaned seeds.

\$2.00—Kentucky blue grass, redtop, bent grasses, and all lawn grass mixtures.

Examination for Noxious Weeds—
50 cents—grasses and other small seeds.

30 cents—other larger seeds.

ENFORCEMENT AND REGULATIONS

Enforcement: State Dept. of Agriculture
537 State Office Bldg., St. Paul.
Division of weed and seed control, C. P. Bull, director.

Regulations:

trol, C. P. Bull, director. egulations:

Grimm Alfalfa—After Sept. 1st, 1930, no alfalfa seed shall be sold in Minn. as "Grimm" alfalfa in amounts of 30 pounds or more, except in sealed sacks bearing labels of the seed certification agency of the state in which the seed was grown.

The name "GRIMM" when used to designate the variety of alfalfa and referring to the seed of alfalfa shall mean and refer only to alfalfa seed, which may be traced through definite lineage to known Grimm a falfa fields in Carver county, Minnesota. The size of the label shall not be less than two inches by four inches. Type not less than 8 point Gothic caps.

Re-Germination Tests—Tests made the year previous to which the seed is offered for sale are not regarded as fulfillment of the law. Date of test shall not be more than 6 months prior to date of sale.

Lawn grass labels must be placed on the front of the carton.

Sugar beets and mangels shall be regarded as agricultural seeds and labeled as such. Hard seeds—In stating the germination it shall be permissible to state the actual germination in terms of %, the hard seed, (where hard seeds occur) in terms of % and add these two figures together to get a figure which can be listed as "live seed."

figure which can be usted as "live seed."

SEED TAG SALE ACT
The following tags shall be used for pure and unmixed seeds other than cereals and s. all be obtained from the Commissioner of Agriculture at the given prices.

YELLOW TAGS for alfalfa, sweet clover, red clover, alsike clover, white clover, lespedeza, and other legume seeds of similar size, timothy, bromus, rye grass, orchard grass, reed canary grass, blue grass, fescues, red top, rape, bent grass and wheat grass.

GREEN TAGS for flax, millets, proso, sorghum or cane, kafir corn, milo maize, mangold, hemp, sudan grass, rutabagas and vetches.

BROWN TAGS for field and canning peas, navy and/or white beans, sunflowers, field and sweet corn and soybeans.

WHITE TAGS for any and all mix-tures of seeds of the forgoing groups when two or more kinds, and/or varie-ties are intermingled in proportions of five percent or more by weight.

PRICES OF TAGS:

100 to 150 pound containers 5c each.
60 to 99 pound containers 4c each.
30 to 59 pound containers 3c each.
15 to 29 pound containers 2c each.
1 to 14 pound containers 1c each.

MISSISSIPPI

Law of 1940 and Regulations Effective January 1, 1941

INFORMATION REQUIRED ON ANALYSIS TAGS.

(A) Agricultural Seeds. Every lot of 5 pounds or more

Common name and variety.

Net weight.

Lot number, (Regulation.)

Percentage of pure seed.

Percentage of weed seeds. Prohibit if in excess of 2½%.

Percentage of other crop seed. (Regula-

7. Percentage of inert matter. (Regulation.)

Name and number per pound of each noxious weed present singly or collectively in excess of: (a) One in each 5 grams.
(See page 106, group A.)
(b) One in 25 grams.
(c) One in 100 grams. (a) One in each

9. Percentage of:

(a) Germination, exclusive of hard seeds.
(b) Hard seeds. (Regulation.)
(c) Month and year of test, provided not over 180 days prior to date of sale.

10. Where grown.

Full name and address of person responsible for the label.

Mixtures of agricultural seeds (by regulation every lot)

That such seed is a mixture.

Net weight.

Lot number. (Regulation.)

Name and percentage of each agricultural seed present in excess of 5% of total mixture.

mixture.
Percentage of weed seeds. Prohibit if in excess of 2½%.
Percentage of other crop. (Regulation.)
Percentage of inert matter. (Regulation.)
Name and number per pound of each noxious weed seed present singly or collectively in excess of one seed in each 15 grams of the mixture.
For each agricultural seed present in excess of 5% give:

(a) Percentage of germination, exclusive of hard seeds.

hard seeds.
(b) Hard seeds. (Regulation.)
(c) Month and year of test, provided not over 180 days prior to the date of sale. Where grown.

Full name and address of person responsible for the label.

(C) Vegetable seed. Each separate con-

cultural seeds

Name of kind and variety.

(a) Year during which seeds were grown or (b) Percentage of germination, hard seed if present and calendar month and year of test. (Regulation.)

For seeds germinating less than the standard last set by the Association of Official Seed Analysts in addition to (b) shall show the words "Below Standard." (Regulation.)

Name and address of party responsible for

Name and address of party responsible for the information given. Mclons, Peas and Beans included as agri-

NOXIOUS WEEDS

Wild onion; Bermuda grass; Johnson grass; dodder; hawkweed; bindweed; nut grass or cocoa grass; dock and plaintain.

WITHDRAW FROM SALE.

Seeds not having a reasonable viability, or that are extremely impure, notwithstanding that they may be properly labeled, shall be withdrawn from sa'e when, in the opinion of the Commissioner such withdrawal is in the interest of normal crop production.

SEIZURE OF SEED.

The Commissioner of Agriculture may seize and hold any lot of agricultural or vegetable seeds found to violate any of the provisions of the seed act until the law has been complied with and said violation otherwise legally disposed of.

SEED LABORATORY AND TESTS

State Seed Laboratory, State College. A. D. Suttle, Analyst, State College, Mississippi.

sissippi. Any citizen of Mississippi has the privilege of submitting not more than 10 samples of agricultural and vegetable seeds for free test and analysis in any one year. Charges to non-residents to be fixed by the Commissioner of Agriculture. of Agriculture.

ENFORCEMENT

State Department of Agriculture, Jackson. Si Corley, Commissioner of Agriculture. J. M. Dean, Chief Inspector.
Seedsmen must secure permit of Commissioner of Agriculture annually, \$1.00 for each seedsman registered and 25 cents for each agent.

REGULATIONS

ULATIONS

Notice of Shipment:

(a) Notice of shipment of agricultural or vegetable seeds shall be mailed within 24 hours from shipping date and shall bear:

(1) Name and address of shipper.

(2) Name and address of person to whom shipped.

(3) The amount.

(4) The kind and variety of seed.

(5) The lot numbers of seed.

(b) Notice of the location of so-called commission boxes of packet seed shall state:

(1) Number of boxes.

(2) Number and size of packages in each.

(3) Their classification as to kinds of seed contained therein.

(4) Name and address of shipper and party to whom delivered.

Size of analysis tag shall be 4½ x 2¾ inches or equivalent in square inches.

All information required an analysis tag shall be placed on one side of the label without intervening matter.

The date on the analysis tags should be the date the germination test was completed.

A complete analysis totaling 100% must be given. Blank spaces on a form tag or incomplete analysis are not permissible.

Abbreviation of names of the variety and kind of seed is not permissible.

Place of origin shall not be used as part of varietal name and kind of seed, as Miss. oats.

Modifying words or phrases shall not be used in connection with the variety, as "type," "for forage purposes," etc.

Brand names, designs, grades or pictures indicating a contradiction to any part of the analysis shall not be permitted.

Different varieties of the same kind of seed, when in quantitites less than 5%, will be considered other crop seed.

Invoices and records of purchase or sale of all seed by the dealer or seedsman shall be accessible for examination by authorized agent of the Department of Agriculture for a period of 3 years.

period of 3 years.

I rucks or other motor conveyors transporting seed for sale on the public highways shari have available for examination a bill of lading, waybill, or delivery receipt showing (1) the name of the shipper or party from whom purchased; (2) the name and address of the party to whom seeds are to be delivered; (3) the kind and amount of each separate kind of seed and (4) the name of the truck driver. seed and (4) the name of the truck drive: and truck line making the delivery.

Farmer seed sold off the premises to be used tor planting purposes must be tagged. Seeds gathered in elevator or other establishments to be sold by tarmers or others are subject to the act.

Express, mail and freight, including truck deliveries to consumers of seed shall also be subject to provisions and rules and regulations pertaining to the enforcement of the Seed Law.

New analysis tag bearing the name of the vendor or other party responsible shall be placed on seed after the original test date becomes 180 days old.

becomes 180 days old. Worthless seed may not be sold or given away for planting purposes. Seed will be considered worthless if it contains in excess of 2½% total weeds or 300 noxious weeds per pound, or is of excessively low germination or mislabeled seed, whose variety is unadapted and unsuited for seeding purposes in Mississippi. in Mississippi.

Seeds treated with fungicides shall show on the label the words "Poison Treated" in not less than ¼-inch face red type.

Minimum germination. No agricultural seed except grasses, unscarified legumes, garden seed listed in the Standards for Germination and seed released by the U. S. customs shall be offered for sale if the germination is believe 60°.

Excessive Noxious Weeds. Seeds containing

Excessive Noxious Weeds. Seeds containing more than 200 noxious weeds per pound shall be labeled in red ink in not less than 12 point type "Excessive Noxious Weeds." Such excess shall not exceed 300 per pound. Seed labeled or sold as "Certified," "Registered" or "Pedigreed" must have been certified or registered and inspected by an officially authorized agency and cannot be sold in Mississippi unless the party selling shall have registered with the Mississippi Department of Agriculture Seed Laboratory the lot number, variety and kind, name and address of the grower, and the history of the seed.

Mixed varieties of oats shall not be sold for

Mixed varieties of oats shall not be sold for planting purposes in this state.

False wild oats will be considered weeds.

Permits. All seed permits expire December 31 of each year. Failure to secure permit by March 1 will incur a penalty equivalent to the cost of the license; anybody selling seed required to be tested and tagged is required to have a permit. to have a permit.

MISSOURI

Law 1938, Rules and Regulations 1942

INFORMATION REQUIRED ON ANALYSIS TAGS

(A) Agricultural seeds. Each lot one pound or more.

Commonly accepted name.
Percentage of pure seed.
Percentage of weed seed.
Name of each noxious weed seed and number per ounce of the seeds in group Ba,
Bb, Bc and per pound in group Bd (page 106-B) present singly or collectively in excess of: excess of:
(a) One in 5 grams.
(See page 106, group A.)

(See page 106, group A.)

(b) One in 25 grams.
(c) One in 100 grams.

5. Percentage of germination (including hard seeds) together with month and year tested. Test cannot be over 9 months old.

6. Percentage of hard seeds.

7. Name of state and county (if field corn) where grown. If unknown, a statement to that effect.

8. Full name and address of vendor together with the vendor's "Missouri Permit No...".

(B) Seed Mixtures.

That such seed is a mixture.

Name and percentage of each kind present in excess of 5% by weight of the total.

Percentage of weed seeds.

Percentage of inert matter.

- 5. Name and number of each noxious weed (D) Hybrid Seed Corn
- Percentage of germination of each kind present in excess of 5% by weight, cannot be over 9 months old.
- 7. Full name and address of vendor together with vendor's "Missouri Permit No. . .".

(C) Vegetable Seeds. Each separate con-

1. The kind of seed and variety

- Percentage of germination together with the month and year tested, if the germination is below the Missouri Standard. (See page 102 for standards.) Statement "Below Standard." Test cannot be over 9 months.
- 3. Full name and address of the packetor.
- No label required on vegetable seed sold and delivered directly to purchaser from a container which is labeled.
- If the container holding the small packets of vegetable seeds is labeled with the Missouri Permit Number, each individual packet need not be so labeled.

Hybrid seed corn shall be the seed of the first generation or a control cross involving one, two, three or four different inbred lines of corn or their combinations and shall be restricted to seed of top crosses, single crosses, three-way crosses and double orcesses.

ble crosses.
Each package or bulk lot shall be labeled with the words "top cross hybrid," "single cross hybrid," "three-way cross hybrid" or "double cross hybrid," as the

brid" or "double cross nyoria, as the case may be.
Each package or bulk lot shall be labeled with the name and number by which the hybrid is designated.
The information required under (A) Shall also be required for each package or bulk lot of Hybrid Seed Corn.

NOXIOUS WEEDS

PROHIBITED—Canada thistle; Johnson grass; Field bindweed—Convolvulus arvensis.

NAME AND NUMBER—Quack grass; dodder; Russian thistle; wild carrot; buckhorn and other varieties of plantain; wild onion; red sorrel; oxeye daisy; garlic; docks.



Operates As Single Unit Or In Series

Extremely accurate, yet so flexible it can be adapted to meet the needs of every individual producer! That's the Hart Precision Grader, Hart-Carter's new development for thickness grading of hybrid seed corn! Can be installed as single machine or

in combinations of two, three or four machines mounted in series. Many combinations of flow possible. Many exclusive features. Special device prevents kernels plugging slots. Write now for full details and price in-



WRITE FOR FREE DESCRIPTIVE

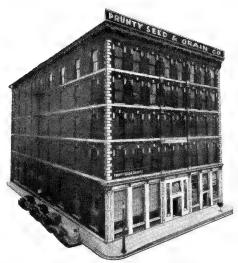
CATALOG, FOLDERS

No. 2 HART CORN GRADER

Grades by length at extra capacity under close, positive control. Simple adjustments permit flexibility in grading. Various sizes of indents available. Cylinder shells easily changed. Comes complete with V Belt motor drivenothing extra to buy. Order now.

HART-CARTER COMPANY

684 19th Avenue N. E. Minneapolis, Minn.



FOR POP CORN BIRD SEED FARM SEED **GRASS SEED**

see

PRUNTY SEED & GRAIN CO.

620 N. Second St. Louis, Mo.

In Our 69th Year of Seed Service

We Specialize in

MONTANA GROWN ALFALFA SEED

Hardiest in America

From grower direct to wholesale dealers in car or truck lots. Also

CRESTED WHEAT GRASS **BROME GRASS** SWEET CLOVER RED CLOVER

MONTANA SEED CO.

Bozeman, Montana

LABORATORY AND TESTS

Federal-State Laboratory at Columbia, Missouri. Missouri College of Agriculture, cooperating with the U. S. Department of Agriculture.

W. C. Etheridge, Collaborator in charge. Miss Clara Fuhr, Analyst, U. S. Dept. Agriculture.

May regulate the maximum number of free samples tested for any one person or firm in a given period of time.

ENFORCEMENT AND REGULATIONS

Missouri State Department of Agriculture, Jefferson City, Missouri.

W. R. Crispin, Marketing Specialist, Grain and Seed Division, U. S. Dept. of Agri-

Permit number to be secured annually at cost

of \$1.00 on application to Department of Agriculture. The permit expires December 31 each year.

"Each container" means each and every packet containing seeds.

Hard Seeds-Law includes hard seed in per cent Hard Seeds—Law includes hard seed in per cent of germination and requires separate statement. Any lot of seed of more than 10 pounds sold from bulk direct to the purchaser shall be accompanied by a copy of the label attached to the container of the bulk lot of seed.

Hemp (Cannabis sativa) shall always be considered a weed when found as an incidental

Any seed treated with a substance poisonous to human beings or animals shall show on the label or a separate tag the word "poison" or "treated" or "poison treated."

MONTANA

Law of 1913 and Amendments to 1939

INFORMATION REQUIRED ON ANALYSIS TAG

(A) Agricultural seeds. One pound or more.

Lot number or other distinguishing mark.
Commonly accepted name.
Variety; if unknown, state "Unknown."
Percentage of pure seed.
Percentage of inert matter.

- Percentage of other crop seed.

 Name and number per pound of noxious weeds present in excess of:

 (a) One in 5 grams.

(See page 106, group A.)

- (See page 106, group A.)
 (b) One in 25 grams.
 (c) One in 100 grams.

 9. Percentage of germination, together with date of test. In cases where there are hard seed, these shall be stated separately with the provision that any portion or all the per cent of such hard seed may be added to the per cent of germination and stated as "total live seed".

 10. Name of state where grown.

 11. Name and address of vendor.

(B) Mixtures. One pound.

- Mixtures. One pound.

 1. Name of mixture.
 2. Lot number or other distinguishing mark.
 3. Name and percentage of each kind of agricultural seed present in excess of 5% of total mixture.
 4. Percentage of weed seeds.
 5. Percentage of other crop seeds.
 7. Name and number per pound of noxious weeds present singly or collectively in excess of one seed in each 15 grams.
 8. Percentage of germination of each kind of agricultural seed present in excess of 5%, together with the month and year tested. In cases where there are hard seed, these shall be stated separately with the provision that any proportion or all the per cent of such hard seeds may be added to the per cent of germination and stated as "total live seed".
 9. Name and address of vendor.

(C) Vegetable seed are not included in the law.

NOXIOUS WEEDS

Quack grass; fanweed or French weed; wild oats; dodder; Canada thistle; wild mustard; wild morning glory; white top; leafy spurge; perennial sow thistle; Russian knapweed; blue lettuce.

SEED LABORATORY AND TESTS

Montana Grain Inspection Laboratory, Agricultural Experiment Station, Bozeman, Montana. Bozeman, Montana. W. O. Whitcomb, Analyst.

Fees—Residents of Montana receive 5 free samples each year. A charge of 50 cents each will be made upon additional samples. Purity analysis of special mixtures will be made at the rate of 75 cents per hour of actual time re-

ENFORCEMENT AND REGULATIONS

Enforcement under Department of Agriculture

Helena, Montana
J. T. Kelly, Commissioner.
When blank spaces on the label are unfilled, it shall be deemed to imply the word "none".
(part of the law)
Classification of seeds.

- Classification of seeds.

 1. Agricultural seeds shall be seeds which, before the removal of weed seed and inert matter, shall be 75% pure seed, except in grass seed which contain a high per cent of empty glumes and is otherwise of good quality.

 2. Mixed agricultural seed shall be seeds which, before the removal of weed seed and inert matter, consists of 75% or more of agricultural seeds of two or more kinds in excess of 5% each. Grains for which Federal Standards have been fixed shall be classed as to mixtures of the individual grains but not as mixed grain, and shall be designated as provided for in the Federal Standards.

 3. Screenings shall be seeds which, before the
- vided for in the Federal Standards.

 3. Screenings shall be seeds which, before the removal of weed seeds and inert matter, consist of less than 75% agricultural seeds. Such screenings shall be designated according to the kind or kinds of seed present.

 Local dealer may use the wholesaler's label for only ninety days provided it complies with the Montana labeling requirements.

 Seed labels complying with the Montana Seed Law may be purchased from the Montana Grain Inspection Laboratory at \$1.00 per 100 or 2 cents each in lesser amounts.

 4. Hybrid Seed Corn shall be seed of

Inspection Laboratory at \$1.00 per 100 or 2 cents each in lesser amounts.

4. Hybrid Seed Corn shall be seed of the first generation of a cross involving two, three or four different inbred lines of corn or their combinations, and shall be restricted to seed of single crosses, these in turn being defined as follows: 1. Single cross—The first generation of a hybrid between a single cross and an inbred line. 2. Three-way cross—The first generation of a hybrid between a single cross and an inbred line. 3. Double cross—The first generation of hybrid between two single crosses.

The name or number by which the hybrid seed corn is designated shall be plainly written or printed on the label of every lot. parcel or bag of seed corn sold as hybrid seed, in addition to the labeling requirements specified in Section 3594.

The pedigree of hybrid corn and the name of breeder who developed each inbred line involved in the cross shall be filed with the Montana Grain Inspection Laboratory of the Montana Agricultural Experiment Station at Bozeman by the wholesaler or vendor of every lot of hybrid seed corn before such is offered for sale in Montana for seeding purposes.

NEBRASKA

Act As Revised to 1940, Rules and Regulations to 1940

INFORMATION REQUIRED ON ANALYSIS TAG

(All tags to be approved by Department of Agriculture and bear printed words, "State of Nebraska approved Official Label.")

(A) Agricultural Seeds. Ten pounds or more.

- Commonly accepted name.
 Percentage of pure seed.
 Percentage of weed seed.

Percentage of other crop seed (regulation not in the law.)
 Percentage of inert matter (regulation not in the law.)
 Name and number per ounce of noxious weed seeds present singly or collectively in excess of:

excess of:
(a) One seed in each 5 grams.
(See page 106, group A.)
(b) One seed in each 25 grams.
(c) One seed in each 100 grams.
7. Percentage of:
(a) Germination.
(b) Hard seeds. (Regulation.)
(c) Month and year of test.
8. Where grown.
9. Name and address of vendor.

(B) Mixtures of agricultural seeds of not more than 2 kinds. Ten pounds or more.

That such seed is a mixture.

That such seed is a mixture.

Name and percentage of each agricultural seed present in excess of 5% of total mixture.

Percentage of weed seed.

Percentage of other crop seed (regulation not in the law.)

Percentage of inert matter (regulation not in the law.)

(C) Special Mixtures. Four ounces or more.

That such seed is a mixture.

Name of each kind of agricultural seed present in proportion of 5% or more of the

present in proportion of 5% of more of the total mixture.

Percentage of weed seed.

Percentage of inert matter.

Name and number per ounce of each noxious weed present singly or collectively in excess of one seed in each 15 grams.

Where grown.

Where grown.
 Name and address of vendor.

(D) Vegetable seeds not included in law. REGULATIONS

(E) Hybrid Seed Corn.

It shall be unlawful to sell any seed corn as "hybrid" unless it answers to the following

"hybrid" unless it answers to the following description:
Hybrid seed corn shall be seed of the first generation of a cross involving two, three or four different inbred lines of corn or their combinations and shall be restricted to seed of single crosses, three way crosses and double crosses.

1. Single cross—The first generation hybrid between two inbred lines.

Three way cross—The first generation hybrid between a single cross and an inbred line

Double cross—The first generation hybrid between two single crosses. The cross men-tioned above shall be produced by cross fer-tilization, controlled either by nand or by detasseling under isolation at the proper

The cross mentioned above shall be produced by cross fertilization, controlled either by hand or by detasseling under isolation at the proper

NOXIOUS WEEDS

PROHIBITS SEED, GRAINS, OR FEED CONTAINING:
Bind weed—Convolvulus arvensis; Canada thistle—Carduus arvensis; leafy spurge—Euphorbia esula; puncture vine—Tribulus terrestris; perennial peppergrass—Lepidium draba; Russian knapweed—Centaurea picris

ris,
GIVE NAME AND NUMBER PER OUNCE
OF THE FOLLOWING WEEDS WHEN PRESENT SINGLY OR COLLECTIVELY IN EXCESS OF THE ALLOWANCE UNDER (A)
6; (B) 6; (C) 5.
Quack grass—Agropyron repens; Dodder—
Cuscuta spp.; Wild oats—Avena fatua and
charlock or wild mustard—Brassica arvensis.

4. Percentage of other crop seed (regulation not in the law.)
5. Percentage of inert matter (regulation not in the law.)
6. Name and number per ounce of each noxious weed present singly or collectively in excess of one seed in each 15 grams.
7. For each kind of agricultural seed present in excess of 5% give:
(a) Percentage of germination.
(b) Percentage of hard seeds. (Regulation.)
(c) Month and year of test.
8. Where grown.
9. Name and address of vendor.

Four Ounces or

ox-in ENFORCEMENT

Enforcement under Department of Agriculture & Inspection, Capitol Building, Lincoln, Nebraska. Allen G. Burke, director.

(April, 1940)

(April, 1940)

Hard Seed. In labeling legumes, the germination must be kept separate from the hard seeds and can only include the percentage of seeds that actually sprout and produce normal seedling. Hard seeds are to be shown under a separate heading. A total of the germination and hard seeds may be shown but this total must be designated as "total of germination and hard seeds" and never as "total" or "total live seed."

NEVADA

Law 1941

INFORMATION REQUIRED ON ANALYSIS TAGS OR CONTAINERS

(A) Agricultural Seeds. One pound or

1. Commonly accepted name weight.

2. Percentage of other crop seeds.

3. Total number and kind of secondary noxious and common weed seeds present in each

Percentage of inert matter.

5. Name and number per pound of each second-ary noxious weed either singly or collectively ary noxious weed either singly of conectively present in excess of,
(a) one seed in each 5 grams (see page 106 group A).
(b) one seed in each 25 grams.
(c) one seed in each 100 grams.

Commonly accepted name of each discernible disease and the percentage of seeds infected by such disease and percentage of spores, sporeballs or other propagating organs of fungi responsible for disease present.

7. Percentage of germination, together with the month and year tested.

- 8. No noxious weeds present.
- 9. Name and address of vendor.
- (B) Mixtures of Alsike and Timothy, Alsike and White Clover, Red Top and Timothy, or Alsike and Red Clover. One pound or more.

- That such seed is a mixture.

 Name and percentage of each kind of agricultural seed present in excess of 5% of the total mixture.

 Total number and kind of secondary noxious and common weed seeds present in each pound.

 Percentage of inert matter.

Percentage of inert matter.

Percentage of inert matter.
 Name of each secondary noxious weed present either singly or collectively in excess of one seed in each 15 grams of such mixture.
 Commonly accepted name of each discernible disease and the percentage of seeds infected by such disease and percentage of spores, sporeballs or other propagating organs of fungi responsible for disease present.
 Percentage of germination of each kind of agricultural seed present in excess of 5%, together with the month and year tested.
 No noxious weeds present.
 Name and address of vendor.

(C) Special Mixtures. One pound or

That such seed is a special mixture.

Name and percentage of each kind of agricultural seed present in the proportion of 5% or more of the total mixture.

Total number and kind of secondary noxious and common weed seeds present in each pound.

Percentage of inert matter.

Percentage of inert matter.

Percentage of their matter.

Name of each secondary noxious weed present either singly or collectively in excess of one seed in each 15 grams.

Commonly accepted name of each discernible disease present and the percentage of seeds infected by such disease and percentage



FOR HEALTHY DOGS AND HEALTHY **PROFITS**

Best for your business are the dog foods that are best for your customers' pets-Spratt's Dog Biscuit Foods! They have been the choice of breeders and experts for generations, because they are made with fine quality ingredients only to a formula that provides a complete, correct dog diet. You make satisfied customers with Spratt's!

FIBO*—Granulated biscuit food for dogs, young and old . . . nourishing, appetizing!

OVALS*—A miniature biscuit for small and medium breeds. Dogs love

SPIX*—Bone-size b i s cuit for medium and large dogs, chock-full of nourishment.

CHARCOAL OVALS*—Aid in eliminating stomach gases and impurities. Popular with all breeds.

ASSORTED BIS-CUITS*—A package containing a variety of small biscuits particularly attractive to the dog.

* Not wartime substitutes . . . the same today as always.

SPRATT'S Patent, Ltd.

Newark, N. J.

San Francisco, Cal.



One of Our Fields of Creeping Red Fescue

We Specialize in-CREEPING REN FESCUE

OUR SEED IS KNOWN FOR

HIGH DUALITY

WRITE FOR PRICES!

OLSEN'S SEED FARM

OLDS, ALBERTA, CANADA

NORTHWESTERN SEED GROWERS, INC.

Producers and Wholesale Dealers

> **ALFALFAS CLOVERS** GRASSES PEAS

Contract Growers Small Seed

MOSCOW IDAHO

of spores, sporeballs or other propagating organs of fungi responsible for disease present. Percentage of germination of each kind of agricultural seed present in excess of 5% together with the month and year tested. No noxious weeds present. Name and address of vendor.

(D) Vegetable included as agricultural seed. Label as under (A) above.

(E) White or Irish potatoes sold, offered or exposed for sale as Certified Seed. One pound or more.

1. Variety.
2. Percentage of inert matter.
3. That the potatoes have passed field and bin inspections necessary to qualify as BLUE TAG, BLUE TAG single drop or RED TAG field inspected seed.

PROHIBITS FROM SALE

Seed containing noxious weed seeds. No tolerance allowed.

NOXIOUS WEEDS. NO TOLERANCE ALLOWED

Camel thorn—Alhagi camelorum; White top or Hoary cress—Lepidium draba, L. repens, Hymenophysa pubescens; Klamath weed—Hypericrem perforatum; Russian knapweed—Centaurea repens; Leafy spurge—Euphorbia esula; Sow thistle—Sonchus arvensis; Canada thistle—Cirisum arvense; Iberian star thistle—Centaurea iberica; Purple star thistle—Centaurea calcitrapa; Yellow star thistle—Centaurea solstitalis; Morning-glory—Convolvulus arvensis; Austrian field cress—Rorpia austriaca; Buffalobur—Solanum rostratum.

SECONDARY NOXIOUS WEEDS
Five-hooked bassia—Bassia hyssopifolia; Crabgrass—Digitaria sanguinalis, D. ischaenium;
Charlock—Brassica arvensis; Fanweed—Thlaspi
arvense; Sandbur—Cenchrus pauciflorus; Horse-

nettle—Solanum carolinense, S. elaeagnifolium, Puncture vine—Tribulus terrestris; Dodders— All species.

All species.

SEIZURE OF SEED. Whenever the state quarantine officer or his deputies receive information that agricultural seeds, or mixtures of the same, are being sold, offered or exposed for sale in the state in violation of any of the provisions of this act, and are of the opinion that such seed endangers the agriculture of the state, they shall condemn and seize same. Any seed so condemned and seized shall be promptly recleaned, processed into feed or fertilizer, or completely devitalized, as ordered by the state quarantine officer and under his supervision.

SCREENINGS OR CLEANINGS from any commercial grain or agricultural seed as defined in this act, which is offered for sale or sold, or returned to the owner, shall be ground, heated or otherwise processed, so as to completely devitalize same in a manner approved by the state quarantine officer, before leaving the cleaning establishment.

SEED LABORATORY AND TESTS

College of Agriculture, Reno, Nevada.
P. A. Lehenbauer—Analyst.
No charge will be made for tests for Nevada growers and seed dealers unless the privilege is being abused.

Charges for tests for out of state dealers and in-

dividuals.

(a) Corn, peas, beans, cereals and seed of similar type or mixtures of the same, 25c; retests,

(b) Alfalfa, clover, timothy, blue grass, red top and seeds of similar type, 50c; retests, 50c. (c) For mixtures of seeds in (b), 75c; retests,

ENFORCEMENT

Under State Department of Agriculture, P.O. Box 1027, Reno, Nevada. Division of Plant Industry, L. M. Burge. Supervising Inspector.

NEW HAMPSHIRE

Law of 1921

INFORMATION REQUIRED ON ANALYSIS TAG

(A) Agricultural Seeds. One pound or more.

- Commonly accepted name.
 Percentage of pure seed.
 Percentage of germination together with the month and year tested.
 Name and address of vendor.

(B) Special mixtures. One pound or more.

Name and percentage of each kind of agricultural seed present in excess of 5% of the total mixture.

Percentage of germination of each kind of agricultural seed in excess of 5%, together with the month and year tested.
 Name and address of vendor.

(C) Vegetable seeds—Turnips, rutabagas, and mangels are considered

agricultural seeds (A). Vegetable seed and Flower seed in tied or sealed packages must be marked with the year tested.

NOXIOUS WEEDS

None.

SEED LABORATORY

Agricultural Experiment Station.
Department of Agronomy.
Durham, New Hampshire.
Mrs. Bessie G. Sanborn, Analyst.

Citizens may submit samples of agricultural seeds for test and analysis, subject to rules and regulations adopted by the Commissioner.

ENFORCEMENT

State Department of Agriculture. Concord, New Hampshire. Commissioner of Agriculture.

NEW JERSEY

INFORMATION REQUIRED ON **ANALYSIS TAGS**

(A) Agricultural seeds. Ten pounds or more.

Commonly accepted name.
 Percentage of pure seed.
 Number per pound of each noxious weed seed present in excess of one seed in each 5 grams or 90 seeds per pound.
 Percentage of germination together with the month and year tested.
 Name and address of vendor.

- (B) Mixtures. Every lot.

That such seed is 11 mixture. Name of each kind of agricultural seed present in excess of 5% of the total mixture.

Percentage of foreign seeds (weed seeds and agricultural seeds not present in excess of

- Percentage of inert matter.

 Number of noxious weed seeds present in excess of one seed in each 5 grams or 90 seeds per pound.

 Name and address of vendor.

(C) Vegetable seeds. One pound or more.

Name of seed.
 Percentage of germination together with the month and year tested.
 Percentage of inert matter if in excess of 50t.

4. Name and address of vendor.

NOXIOUS WEEDS

Quack grass—Agropyron repens; horse nettle—Solanum carolinense; dodder—Cuscuta species; Canada thistle — Carduus arvensis; Russian knapweed—Centaurea picris.

SEIZURE

The State Seed Analyst, or his deputies, may seize and hold any lot, parcel or package of agricultural or vegetable seed found in violation of any provisions of this act or rules and regulations hereunder, until the law or such rules and regulations have been complied with, or said violation otherwise disposed of as herein provided: in provided:

- (a) Worthless seed forfeited to the state, to be disposed of. Worthless seed shall be:

 1. Seed of no seeding or feeding value.
 2. Seed containing in excess of 1 noxious weed in every five grams of such seed

 ENFORCEMENT
- (b) Seed not properly labeled shall be with-

held until the proper analysis and tags have been provided.

(c) Seed found to be misrepresented as to kind shall be condemned and its sale prohibited.

SEED LABORATORY AND TESTS

Seed Laboratory, Agricultural Experiment Station. New Brunswick, New Jersey.
Jessie G. Fiske, State Seed Analyst.
Tests—Any citizen of the state may receive m limited number of tests without charge.

Board of Managers of the New Jersey Agricultural Experiment Station.

NEW MEXICO

Law of 1919

INFORMATION REQUIRED ON ANALYSIS TAGS

(Not less than 8 point Gothic caps)

(A) Agricultural seeds. One pound or

- 1. Commonly accepted name of kind and va-
- riety.

 Percentage of all foreign seeds combined in such agricultural seeds.
- Percentage of each noxious weed present.
 Percentage of germination of such agricultural seed together with the month and year tested.
- year tested.
 6. County where grown if in this state.
 7. Name and address of vendor.

(B) Mixture not mentioned.

(C) Vegetable seed not included under law.

NOXIOUS WEEDS

Quack grass; fanweed or French weed; mustard; wild oats; dodder.

SEED LABORATORY AND TESTS

Seed Laboratory, New Mexico State College of Agriculture and Mechanical Arts. Department of Agronomy, at State College, New

J. C. Overpeck, Professor Agronomy.

Tests-Residents of the state may send samples for tests to the New Mexico College of Agriculture which shall be reported upon free of charge not to exceed 6 tests in any calendar

ENFORCEMENT

Board of Regents of the New Mexico College of Agriculture and Mechanic Arts.

NEW YORK

Law of 1922 As Amended 1940

INFORMATION REQUIRED ON ANALYSIS TAG OR CONTAINER

(A) Agricultural seeds. Every lot.

- The commonly accepted name.
 Percentage of pure seed.
 Percentage of weed seeds. Prohibited if in excess of 1.5%.
- Name and number per pound of each noxious weed present singly or collectively in excess of:
- excess of:

 (a) one seed in each 5 grams.

 (See page 106, group A.)

 (b) one seed in each 25 grams.
 (c) one seed in each 100 grams.

 5. Percentage of:
 (a) Germination, exclusive of hard seeds.
 (b) Hard seeds. (Regulation.)
 (c) Month and year of test.

 6. Name and address of vendor.

(B) Mixtures. Every lot.

- That such seed is a mixture. Name and percentage of each kind of agricultural seed present in excess of 5% of the

- cultural seed present in excess of 5% of the total mixture. Percentage of weed seeds. Prohibited if in excess of 1.5%. Name and number per pound of each kind of noxious weed present singly or collectively in excess of one seed in each 15 grams. For each kind of agricultural seed present in excess of 5% give:

 (a) Percentage of germination, exclusive of hard seed.
- hard seed. (b) Percentage of hard seeds. (Regulation.)
 (c) Month and year of test.
 6. Name and address of vendor.

(C) Special mixtures. Every lot.

- That such seed is a mixture.
 Name and percentage of each kind of agricultural seed present in proportion of 5% of the total mixture.

- Percentage of weed seeds. Prohibited if in excess of 1.5%. Percentage of inert matter. Prohibited if in excess of 20%. Name and number per pound of each kind of noxious weed present singly or collectively in excess of one seed in each 15 grams. For each kind of agricultural seed present in excess of 5% give:

 (a) Percentage of germination, exclusive of hard seeds.

- (b) Percentage of hard seeds. (Regulation.)(c) Month and year of test.7. Name and address of vendor.

(D) Vegetable seeds. Each separate container.

- Kind of seed and the variety.
 Percentage of germination together with the year seed was tested (using type not smaller than 10 point).
 Name and address of person or firm that packeted the seed and labeled the same.

(E) Flower seeds. Each separate container.

- Kind of seed and variety.
 Name and address of person or firm that packeted the seed and labeled the same.

(F) Tree and Shrub Seeds. Each separate container.

- 1. The kind of seed, and the variety.
 2. The approximate percentage by weight of pure seed.
 3. The approximate percentage of germination.
 4. The year of collection of such seed.
 5. The specific locality (state and county in the United States, or nearest equivalent political unit in the case of foreign countries) in which the seed was collected.
 6. The name and address of the vendor of such seeds.

(G) Potatoes. Each separate container.

- The variety or varietal type.
 U.S. grade of the contents.
 Name and address of grower or vendor.

NOXIOUS WEEDS

Quack grass—Agropyron repens; wild mustard—Brassica arvensis and other Brassica species; Canada thistle—Cirsium arvense; dodder—Cuscuta species; crabgrass—Digitaria species; docks—Rumex species.

"STOP SALE."

STOP SALE."

The commissioner or his authorized agents may remove from further sale or prohibit from sale, any unlabeled seed or any seed which is found to be grossly unclean as to be unfit for seeding purposes until it has been properly recleaned, and may prohibit further sale or destroy after due process of law, seeds which are found to be so weak or low in germination as to be useless for seeding purposes.

COMSTOCK FERRE & CO.

Established 1820

GROWERS WHOLESALE DEALERS

GARDEN SEED FLOWER SEED PEAS AND BEANS ONION SEED ONION SETS SWEET CORN

Wethersfield, Conn.

Michigan Grown Farm Seeds

Alfalfa Red Clover Alsike **Hybrid Corn**

Roscoe J. Carl

LANSING, MICHIGAN

SEEDS

originating in

MONTANA—DAKOTA

Northern Minnesota and Western Canada move in transit through this natural gateway.

We specialize in Straight and Assorted Cars of these origins.

Phone-Wire or Write for Prices

NEWDAY SEEDS, INC. FARGO, N. D.

We Specialize

in

CARLOADS

ALFALFA

LESPEDEZA

SOY BEANS

Cow Peas

SUDAN GRASS

CANE SEED

SEED CORNS

RUSSELL-HECKLE SEED COMPANY

MEMPHIS, TENNESSEE

SEED LABORATORY AND TESTS

Seed Laboratory. New York State Agricultural Experiment Sta-tion, Geneva, New York. M. T. Munn, State Seed Analyst.

ENFORCEMENT AND REGULATIONS

Enforcement—Department of Agriculture, Albany, New York. Holton V. Noyes, Commissioner of Agriculture.

Regulations—Use of word "certified" limited to seed which has been certified by an official of a State or Federal agency (part of the law).

a State or Federal agency (part of the law).

Misrepresentations prohibited (part of law).

"Commonly accepted name" shall mean the complete botanical designation commonly accepted by the public and seed trade as Learning corn, Ithacan oats, Grimm alfalfa, not simply corn, oats and alfalfa.

Germination shall mean the percentage of seeds which are capable of sprouting promptly into normal seedlings. Hard seeds as found in legumes may be stated separately and shall not be added to the percentage of germination or used in such a way as to be misleading.

"Seed unfit for seeding purposes" shall be understood to mean those lots which contain noxious weeds in excess of the average commercial grades for that particular season or mixtures containing in excess of 1.5% of troublesome weeds or special lawn seed mixtures containing in excess of 20% of inert matter. These are subject to removal from sale.

Seed stocks showing less than one-half the seedled standard removal and seed in seed.

Seed stocks showing less than one-half the so-called standard germination as accepted in seed control and seed trade practices shall be con-sidered too low in germination and unfit for

sale.

The term "hybrid" must not be used in connection with any kind of seed corn unless such stock is the seed of the first generation of a controlled cross between strains of different parantage and involving one or more inbred lines of corn or their combinations.

NORTH CAROLINA

Law of 1941, Regulations of 1941 INFORMATION REQUIRED ON ANALYSIS TAGS

Use North Carolina state tags.

- (A) Agricultural seeds. Ten pounds or more.

(B) Mixed agricultural seeds. Ten pounds or more.

Same as for unmixed seed, except that it must be called "mixed" or a "mixture" and the information required under 1, 3, and 7 shall be given for each agricultural seed present in excess of 5%.

(C) Vegetable seeds. Ten pounds or more.

Vegetable seeds. Ten pounds or more.

1. Name of kind and variety.

2. Seed which germinates equal to or above the standard last established, the words "NORTH CAROLINA STANDARD" may be used in lieu of the actual germination. For standards see page 102.

3. For seed which germinates less than the standard last adopted give:

(a) Percentage of germination, exclusive of hard seeds.

(b) Percentage of hard seeds.

(c) Month and year of test. The test for germination shall have been completed within nine months prior to sale or exposure for sale.

(d) The words "BELOW STANDARD."

4. Name and address of person labeling seed, or who sells, offers or exposes seed for sale.

(D) Vegetable seeds.

In containers of less than ten pounds which

Farm Seeds

From Northwestern Ohio are better

Highest Purities



Hardiest Origin

When Refined by

THE ACKERMAN CO.

WHOLESALE FIELD SEEDS

Lima Ohio

SWEET CLOVER CRESTED WHEAT GRASS NORTHERN ALFALFA **BROMUS** GOLDEN VIKING FLAX WALSH FLAX VICLAND SEED OATS IMPROVED REGENT WHEAT PILOT SEED WHEAT SEED POTATOES

ASK FOR QUOTATIONS

INTERSTATE SEED & GRAIN CO. FARGO, N. D.

BUYERS **SELLERS**

QUALITY FIELD SEED

YOUNG & CONWAY MORGANFIELD, KY.

1867-1943 76 YEARS OF SEED SERVICE



Featuring Kansas Alfalfa Seed All Garden Seeds Flower Seeds All Field Seeds Grain Sorghums T.N.T. POPCORN

The most complete stocks of all seeds in the middle west.

THE BARTELDES SEED CO. Lawrence, Kansas Denver, Colorado

germinate less than the standard last adopted, shall show the actual germination.

PROHIBITS THE SALE OF-

- Seed, unless the germination test shall have been completed within a nine month period.
 Seed containing Primary noxious weeds subject to the tolerances prescribed in the rules and regulations.
- and regulations.

 3. Small grains (wheat, oats, rye and barley) containing more than 100 Secondary noxious weed seeds per pound.

 4. Seed containing more than 2,500 dodder per
- 5. Seed containing in excess of 3% of weed seeds except carpet grass and Dallis grass which shall not exceed 5%.

NOXIOUS WEEDS

PRIMARY NOXIOUS WEEDS. PROHIBITED. Johnson grass—Sorghum halepense; bindweed—Convolvulus arvensis.

SECONDARY NOXIOUS WEEDS.
Wild onion—Allium vineale; corncockle—Agrostemma githago: cheat—Bromus secalinus; dodder—Cuscuta spp.

"STOP SALE." The Commissioner of Agriculture or his authorized agents shall issue "Stop Sale" orders which shall prohibit further sale of any lot of seed which he has reason to believe is being offered or exposed for sale in violation of any provisions of this act, until the law has been complied with, or said violation otherwise legally disposed of.

WITHDRAWAL FROM SALE. The Commissioner of Agriculture may withdraw from sale seed not having a reasonable viability or that are extremely impure, or that are of distinct low quality otherwise, notwithstanding they may be properly labeled, when such withdrawal is in the interest of normal crop production.

SEED LABORATORY AND TESTS

Seed Laboratory, Department of Agriculture,

Seed Laboratory, Bepartment of Agriculture, Raleigh, J. W. Woodside, Botanist.

Tests—Free to citizens of the state. To non-residents the fee for purity 25 cents and for germination 25 cents.

ENFORCEMENT

Enforcement—Department of Agriculture, Raleigh, North Carolina.
D. S. Coltrane, Assistant to Commissioner.

Licensing.

Each seed dealer selling, offering or exposing for sale in, or, for export from this state, of any agricultural, vegetable or flower seed, other than packet or package seeds, for seeding purposes, shall register with the Department of Agriculture the name of such dealer, and shall on the first of January annually obtain a license paying:

- (1) \$25.00 if a wholesaler or a wholesaler and
- \$10.00 if a retailer with sales in excess of \$10.00 if a retailer with sales in excess of \$100.00 for the calendar year. Each branch of any wholesaler or retailer shall obtain a retail license.
- (3) \$1.00 if a retailer at memory permanent location with sales not in excess of \$100.00. (Owners or operators of harvesting or threshing machines operating on a share basis and selling only seed obtained in this manner shall be exempt from obtaining a license.)

Inspection stamps of \$1.00 shall be purchased from the Department of Agriculture for each 72 dozen packets or packages of vegetable or flower seeds or portion thereof.

- (1) Stamps shall be secured by the producer. grower, jobber or other person, firm or corporation shipping such seed into the state hefore shipment to agent or retailer, and furnished to said agent or retailer for at-
- (2) Producer, grower or iobber or other person, firm or corporation, residing within this state shall secure said stamps and attach to the display case before said seed is offered for sale. tach to the displais offered for sale.
- (3) When package seed of one kind or variety are offered or exposed for sale in boxes or display cases not in excess of three dozen packages. a ten cent stamp shall be purchased and attached to said box.

- ags.

 (1) A North Carolina seed analysis tag purchased from the Department of Agriculture for 1 cent each shall be attached to each container of 10 pounds or more. If shipped into the state, said tag shall be secured by person shipping such seed.

 (2) Seed containing more than 500 dodder seed per pound shall be designated as "Low Grade Seed" and shall be labeled with a red tag.



Timothy Red Clover Alsike Sweet Clover Hardy Alfalfas

Car Lots or Less

NORTHERN Field Seed Co.

Winona Minnesota

CRESTED WHEAT GRASS

Standard and Fairway Strain



Slender Wheat Grass **Western Wheat Grass** Sweet Clover Seed Northern Alfalfa

VALKER-CHRISTENSEN CO.

Minot, North Dakota

Wholesale Dealers

SWEET CLOVER ALFALFA **TIMOTHY ALSIKE BROME GRASS** CRESTED WHEAT GRASS

> Write for Prices and Samples

GOLDBERG SEED & FEED COMPANY

Phone 3-1098 FARGO, NORTH DAKOTA

NORTH DAKOTA

Act of 1931 Regulations of 1939, Amended 1941

INFORMATION REQUIRED ON ANALYSIS TAGS

(A) Agricultural seeds. Every lot.

Commonly accepted name.
Lot number or other lot identification.
Percentage of purity.
Percentage of inert matter.
Percentage of other agricultural seeds.
Percentage of germination, together with the month and year of test.
Where grown—state and county in case of corn, and state in case of alfalfa and clovers. of corn

clovers.

Name and address of vendor.

Seed containing noxious weed seeds shall be labeled to show their presence if present, singly or collectively, in excess of:

"Prohibited Noxious Weed Seeds"—1

seed in 90 grams.
"Primary Noxious Weed Seeds"—1 seed in 20 grams.

(B) Mixtures of two kinds. Every lot.

That such seed is a mixture.
 Name and percentage of each kind present in excess of 5% of total mixture.
 Name and number per pound of each kind of noxious weed present singly or collectively in excess of one seed in each 15 grams.
 Percentage of germination of each kind present in excess of 5% together with the month and year tested.

where grown, state and county in case of corn, and state in case of alfalfa and

6. Name and address of vendor.

(C) Special Mixtures. Every lot.

Special Mixtures. Every lot.
 That such seed is a mixture.
 Name of each seed which is present in proportion of 5% or more of the total mixture.
 Percentage of weed seed.
 Percentage of inert matter.
 Name and number per pound of each kind of noxious weed present singly or collectively in excess of one seed in each 15 grams.
 Name of county and state where each variety of seed corn in mixture was grown.
 Name and address of vendor.

(D) Vegetable and Flower Seed in lots five pounds or less are excluded from label requirements.

NOXIOUS WEEDS

PROHIBITED NOXIOUS WEEDS
Leafy spurge (Euphorbia esula).
Field bindweed (Convolvulus arvensis).
Perennial peppergrass or White top (Lepidium draba, L. repens, Hymenophysa pubescens.

bescens.
Russian knarweed (Centureau picris).
PRIMARY NOXIOUS WEEDS
Quack grass (Agropyron repens).
Canada thistle (Cirsium arvense).
Perennial sow thistle (Sonchus arvensis).
Dodder (Cuscuta spp. except coryli).

SEED LABORATORY AND TESTS

Seed laboratory. State College Station, Fargo.

Miss Edith Higgins, Analyst.

Any resident of North Dakota may have three free tests per year, additional test fees are:

Purity Tests

free tests per year, additional test fees are:

Purity Tests
Clovers, alfalfa, cereals, flax. corn, beans, peas, etc. \$0.50
Grass seeds, or mixtures of grass and/or clover seeds \$1.00

Germination Tests
Each test \$0.50

Fees for non-residents
Purity \$1.50

Germination 1.00 Germination . .

ENFORCEMENT AND REGULATIONS

Enforcement is under
State Seed Dept., State College Station.
Fargo.
R. C. Hastings, Seed Commissioner.

REGULATION (March 11, 1949.)

Sweet clover shall be considered properly labeled:

1. As "White Blossom Sweet Clover" provided the mottled seed content is less than 2%. Such mottled seed may be included in the percentage of purity but must be shown on the tag.

2. As "White Blossom TYPE Sweet Clover" provided the mottled seed content is less than 5%. Such mottled seed will be included in the percentage of purity.

3. As "Sweet Clover" or "Mixed Sweet Clover" provided the mottled seed content is 5% or more. Such mottled seed will be included in the percentage of purity.

4. As "Yellove Blossom Sweet Clover" provided the mottled seed content is 11% or more. Such mottled seed will be included in the percentage of purity.

SEEDS

Field Flower Vegetable



Immediate Delivery on Most Items

Prompt, careful service to the retail dealer trade.

ASK HOLMES FIRST!

Holmes Seed Co. CANTON, OHIO

SWEET CLOVER **ALFALFA**

BROMUS INERMIS CRESTED WHEAT GRASS SLENDER WHEAT GRASS **WESTERN WHEAT GRASS** TIMOTHY

> **GARDEN SEEDS** In Bulk and Packets

ALSIKE CLOVER

Magill & Co.

Since 1887 Operating

Fargo Seed House

FARGO

NO. DAKOTA

TIMOTHY CLOVER

and all kinds of

•FIELD **SEEDS**

Fancy Grasses White Clover POP CORN

Buyers and Sellers Carlots or Less

CRAVER - DICKINSON SEED COMPANY

BUFFALO

NEW YORK



SWEET DENT, FLINT **ENSILAGE** POP-CORN

C. S. CLARK & SONS

WAKEMAN, OHIO

5. As "Yellow Blossom TYPE Sweet Clover"
provided the mottled seed content is in
excess of 7%. Such mottled seed will
be included in the percentage of purity.
Any other sweet clover labelled as a specific
variety, such as Artic, Alpha, or Madrid,
shall conform to the characteristics of that
variety

HYBRID CORN

Regulatory Announcement No. 17

a. The use of the term "hybrid", in connection with seed corn offered or exposed for sale shall be restricted to first generation stock of a cross, the parentage of which involves one or more inbreds.
b. An Inbred Line shall consist of a line of corn that has been developed as a result of about five generations of controlled self-fertilization and selection, and/or when the inbred line is relatively uniform and homozygous. zygous.

inbred line is relatively uniform and homozygous.

A Foundation Hybrid (single cross) shall consist of the first generation of a hybrid between two inbred lines to be used in the production of hybrids containing more than two inbred lines, and/or an advance generation single cross (hybrid) which has been grown under controlled conditions, certified and designated to be used as a foundation hybrid.

A Commercial Hybrid is the first generation cross to be planted for the production of feed or for any other commercial or farm use except for seed. It may be any one of the following:

(1) A Double Cross—the first generation of a cross between two foundation hybrids (single crosses).

(2) A Three-Way Cross—the first generation of a cross between a foundation hybrid (single cross) and an inbred line.

line.

(3) A Single Cross—when the single cross is to be used for commercial production and not for the production of double or three-way crosses.

(4) A Top Cross—the first generation of a cross between an inbred line and an open-pollinated variety.

The State Seed Commissioner is authorized to be guided by such rules as have been adopted by the Corn Certification Committee of the International Crop Improvement Association and by suggestions received from the North Dakota Agricultural Experiment Station.

The Seed Commissioner is authorized to conduct all work in connection with the registration and certification of hybrid corn on a cost basis.

a. Field inspection fee for each field: First acre, \$3.00; each additional acre up to 25 acres, 75 cents per acre; and each additional acre OVER 25 acres, 50 cents per acre.

Certification tags will be supplied at the rate of one and one-half cents per bushel.

rate of one and one-half cents per bushel.

c. The entire acreage of inbred lines and foundation hybrids (including pollen parent) will be considered as one combination for the purpose of determining charges on these. However, the charge for these will equal one and one-half times the amount indicated in the above table.

The vendor of hybrid seed corn shall be responsible for there being on file with the State Seed Commissioner an affidavit giving the name or number by which it is to be sold, and lurther that the inbreds involved in the hybrid are the same each time the hybrid is so designated.

nated.

In addition to labeling requirements ((A) above), every lot, package, parcel or bag of seed corn sold as "Hybrid" corn shall have on the tag the name and/or number by which the hybrid is designated.

OHIO

As Amended 1937

INFORMATION REQUIRED ON ANALYSIS TAGS

(A) Agricultural seeds. Every lot.

Gricultural seeds. Every lot.

Commonly accepted name.
Percentage of pure seed.
Percentage of weed seed.
Name and number per ounce of each kind of noxious weed present singly or collectively in excess of (Prohibit 3% or over)
(a) one seed in each 5 grams.
(See page 106, group A.)
(b) one seed in each 25 grams.
(c) one seed in each 100 grams.
Percentage of:
(a) Germination, exclusive of hard seeds.
(b) Hard seeds.
(c) Month and year of test. Test date shall not be over 300 days old. Tolerance of not over 10% allowed.
Where grown on red clover and alfalfa.
Name and address of vendor.

HEADQUARTERS

for

ALFALFAS

CLOVERS

GRASSES

FORAGES

RUDY-PATRICK SEED CO.

KANSAS CITY, MO.

ROSS SEED CO.

Established 1895

LOUISVILLE, KY.





The Best

Wholesale Field and Grass Seeds

Jobbers of Orchard Grass . . Bluegrass . . Redtop . . Clovers . . Timothy . . Korean (Lespedeza) . . Soybeans . . Cowpeas, Etc.

Car lots or less

ROSS SEED

INCORPORATED

15th and Lytle

Louisville, Ky.

MOORE

FARM

FLOWER

V_{EGETABLE}

SEEDS

A WHOLESALE BROKERAGE SERVICE THAT IS JUST A LITTLE DIFFERENT

> COMMERCIAL BEANS MUSTARD SEED

Correspondence invited with growers and wholesalers considering a profitable brokerage connection.

38 years' personal experience in the Cincinnati market

CHARLES R. MOORE

Chamber Commerce Bldg. CINCINNATI, OHIO

Cables-Morseed Telephone-Main 4246

(B) Mixtures. Every lot.

1. That such seed is a mixture.

2. Name and percentage of each kind of agricultural seed present in excess of 5% of the total mixture. (If any agricultural seed named on the label is present in amount less than 5%, the percentage of such seed shall be given.)

3. Percentage of weed seeds. (Prohibit 3%.) (If inert matter exceeds 15% sale is prohibited.)

(If mert matter exceeds 13% sale is prohibited.)
Name and number per ounce of each kind of noxious weed seed present singly or collectively in each 15 grams.
For each kind of agricultural seed named on the label give:

(a) Percentage of germination, exclusive of hard seed.

hard seed.

(b) Percentage of hard seed.

(c) Month and year of test. Test date shall not be over 300 days old. Tolerance of not over 10% allowed.

(C) Vegetable seeds.

l. In containers of less than one pound, if germination is equal to or above germination standards. (See page 102.)

(a) Kind and variety.

(b) Name and address of person, firm or corporation responsible for labeling on the container.

corporation responsible for labeling on the container.

2. In containers of one pound or more and container of less than one pound when the seed germinates less than the Ohio germination standard. (See page 102.)

(a) Kind and variety.
(b) Percentage of germination with the month and year of test.

(c) Name and address of person, firm or corporation responsible for labeling on the container.

3. Packet seed prohibited if germination is below Ohio standard. (See page 102.)

(D) "Certified" limited to seed certified by an approved agency—certifica-tion tag attached to container must show

1. Grower's name and address or his number registered with the Department of Agricul-

Name of certifying agency.
The state of production.
Such other information as pertains to cer-

Prohibits the sale offering or exposing for sale of-

1. Agricultural seed containing in excess of 3%

Agricultural seed containing in excess of 3% of noxious weeds.
 Seed with a germination date test of more than 300 days old prior to date of sale.
 Packet seed prohibited if germination is below Ohio standard.
 Mixtures of agricultural seed containing over 15% inert matter.

NOXIOUS WEEDS

Canada thistle—Cirsium arvensis; Wild garlic—Allium vineale; quack grass—Agropyron repens; dodder—Cuscuta species; plantains—Plantago species (includes buckhorn); wild carrot—Daucus carota; ox-eye daisy—Chrysanthemum leucanthemum; corn cockle—Agrostemma githago; docks—Rumex species (including Rumex acetosella or sorrel); chicory—Cichorium intybus.

SEED LABORATORY AND TESTS

D LABORATORY AND TESTS

State Department of Agriculture.

Division of Plant Industry.

Columbus, Ohio.

C. N. McIntyre, State Seed Analyst.

Free tests—purity and germination 4 samples of redtop or similar seed, two samples of redtop or similar seed or one sample of lawn mixture or five germinations of vegetable seeds.

Additional samples will be charged at the rate
of 25 cents for all germinations.

Purity tests—clovers, alfalfa timothy, etc. \$.50

grasses as bluegrass, redtop. 1.00

mixtures of lawngrass. . . . 2.00

ENFORCEMENT

Enforcement—Department of Agriculture.

Division of Plant Industry.
Columbus, Ohio.
Stanley E. Laybourne, Chief.

License—Each person or company shall pay
a license fee to the Director of Agriculture for
each separate place of business, according to
quantities sold.
Quantities not exceeding 8 ounces for
each \$25.00 wholesale value—\$.25 tax stamp
Quantities not to exceed 10
pounds for any container...\$2.50
Quantities up to and exceeding
10 pounds for any container...\$5.00

REGULATIONS

Hard seeds must not be added to sprouted seed and designated as "total germination" or "total viable seed" or "total live seed."

GRAIN WOOL

SFFI

DONLEY'S

Super-Cleaned

FIFI.N

LAWN SEED

J. L. DONLEY & BBA.

ASHLAND

NHIR

INTERNATIONAL SEED. INC.

11 Park Place, New York City

Cable Address: "Seedtest New York" E. E. PATTISON, President

Specialists in Grass, Field, Vegetable Seed, Spice and Feed Seed

Representatives Consultants—Analysts

Maintaining our own Complete Seed Testing Laboratories

Open to the Seed Trade **Testing Accounts Solicited**

MEMBERS OF THE AMERICAN SEED TRADE ASSOCIATION

MEMBERS [ASSOCIATE] SOUTHERN SEEDSMEN'S ASSOCIATION

MEMBERS ASSOCIATION OF COMMERCIAL ANALYSTS

MEMBERS (ASSOCIATE) PACIFIC SEEDMEN'S ASSOCIATION

GENUINE

ARIZONA GROW

Known for Its HIGH PURITY and **GERMINATION**

BERMUDA **GRASS SEED**

a Specialty

Write for Samples & Prices

E. F. SANGUINET

Established 55 yrs.

YUMA.

ARIZONA



THE BELT SEED COMPANY **INCORPORATED** BALTIMORE

Better Lawn Grasses

Farm Seeds

By Royal Command Purveyors to His Majesty The American People



"Other Crop Seeds" must not be added in with the total purity percent on the label. The word "Hybrid" as applied to field, sweet or popcorn, shall not be used unless the "hybrid" corn represents the first generation of a cross involving (one, two, three or four) different inbred lines of corn or their combinations. Hybrid Seed Corn—The word "Hybrid" as applied to field, sweet or popcorn, shall not be used unless the "hybrid" represents the first generation of m cross involving one, two, three or four different inbred lines of corn or their combinations. In addition to labeling requirements (A) every lot, package, parcel or bag of seed corn sold as hybrid shall have plainly written or printed on the tag or label the name and number by which the hybrid is commonly designated. The vendor shall be responsible for registering with the Director of Agriculture, the pedigree of the hybrid and name of person, firm or corporation who developed each inbred involved in the cross.

OKLAHOMA

Statutes of 1931 Rules and Regulations 1941

INFORMATION REQUIRED ON ANALYSIS TAGS

(A) Agricultural Seeds. Every lot.

Commonly accepted name. Percentage of pure seed. Percentage of weed seed.

Name and number per pound of each kind of noxious weed seed present singly or collectively in excess of:

(a) One seed in each 5 grams.

collectively in excess of:

(a) One seed in each 5 grams.
(See page 106, group A.)
(b) One seed in each 25 grams.
(c) One seed in each 100 grams.

5. Percentage of germination, together with the month and year tested.

6. Name of state and county where grown; if unknown mark "origin unknown."

7. Name and address of vendor.

(B) Mixtures. Every lot.

1. That such seed is a mixture.
2. Name and percentage of each kind of agricultural seed present in excess of 5% of the total mixture.
3. Percentage of weed seeds.
4. Percentage of inert matter.
5. Name and number per pound of each kind of noxious weed seed present singly or collectively in excess of one seed in each 15 grams.

collectively in excess of one seed in each 15 grams.

6. Percentage of germination of each kind of agricultural seed present in excess of 5%, together with the month and year tested.

7. Name of state and county where grown. If unknown, label "origin unknown."

8. Name and address of vendor.

(C) Vegetable seeds.

The term agricultural seeds includes stock beets, sugar beets, cabbage, tomatoes, onions, and all other field crops grown in Oklahoma; hence, all vegetable and truck seeds sold would come under labeling requirements (A).

NOXIOUS WEEDS

(February, 1940)

Bindweed (Convoivulus arvensis)
Blueweed (Echium vulgare)
Bracted plantain (Plantago aristata)
Buckhorn (Plantago lanceolata)
Buffalo-burr (Solanum rostratum)
Bullnettle (Jatropha stimulosa, Solanum carolinense)

Bullacibul (Solanum Tostulan Tostulanum carolinense)
Chess or Cheat (Bromus secalinus)
Coco grass or nut grass (cyperus rotundus)
Corncockle (Agrostemma githago)
Dock, curly (Rumex crispus)
Dodder (Cuscuta arvensis, C. epithymum)
Hedge bindweed (Convolvulus sepiom)
Horsenettle (Solanum carolinense)
Johnson-grass (Sorghum halepense, syn. Andropogon halepense)
Mustarol, wild (Brassica arvensis)
Oats, wild (Avena fotua)
Onion, wild (Allium vineale)
Russian-thistle (Salsola pestifer, syn. Salsola kali var. tenuifolia)
Sow thistle, perennial (Sonchus arvensis)
Sorrel, red (Rumex acetosella)
Thistle, Canada (Cirsium arvense)
Wild buckwheat (Polygonum convolvulus)

STOP SALE ORDER

Any seed in violation of the Oklahoma Seed Law or Rules and Regulations shall be subject to a "Stop Sale Order." Seed on which such an order has been issued cannot be moved, sold or offered for sale until the violation has been corrected to the satisfaction of the inspector or otherwise disposed of, and released by the inspector.



Wholesale Dealers in ALSIKE BED CLOVER ALFALFA SWEET CLOVER TIMOTHY SOYBEANS

STOLLERS SEED HOUSE

211 W. PERRY ST.

PHONE 28

PAULDING, OHIO

OSTBERG SEED CO.

7301 Woodlawn Avenue

Telephone Dorchester 0314

CHICAGO

Wholesalers of Imported and Domestic

FIELD SEEDS

Blue Grass Red Top

Clovers Rye Grass

Fancy Grasses Lawn Mixtures

& Seeds Specialties Red Clover White Clover Ladino Clover Yellow Hop Clover Hairy Vetch **Spring Vetch**

JENKS WHITE SEED CO SALEM OREGON

Hungarian Vetch Austrian Peas

Crimson Clover Poa Bulbosa

Domestic Rve Grass Perennial Rye Grass Chewings Fescue

Seaside Bent Grass **Astoria Bent Grass** Oregon Highland Bent

Reed Canary Grass

TRANSCONTINENTAL SEED, INC.

Grass and Field Seeds 20 Vesey Street New York City

Chewings Fescue

Bentgrasses

Orchard Grass

Blue Grass

Red Top

Ryegrasses

Timothy

Red Clover

Alsike Clover

White Clover

Wild White Clover

Alfalfa

Rape Seed

and all other kinds of Grass and Field Seeds.

Car lots, Truck lots, Bag lots.

IMPORT—EXPORT

Cable Address: TRANSEEDS, New York Phone: WOrth 2-6428

SEED LABORATORY AND TESTS

State Seed Laboratory, State Board of Agriculture, Oklahoma City, Oklahoma.
Parks A. Yeats, State Seed Analyst and Plant Quarantine Officer.
Tests—Each resident allowed 8 free samples in one year. Additional tests will be 50 cents for a complete test and 30 cents for either purity or germination. Non-resident fee 50 cents for each sample.

ENFORCEMENT AND REGULATIONS

Enforcement under State Seed Analyst and Quarantine Officer who is responsible to the State Board of Agriculture.

Quarantine Officer who is responsible to the State Board of Agriculture.

A quarantine regulation was issued August 1935, on all field seeds entering Oklahoma unless tagged with a complete label as (A) and accompanied by a Waybill showing the names of the consignor and consignee, the state and town of origin and the point of destination.

Cotton seed—To ship cotton seed into Oklahoma, an affidavit of location where grown and freedom from communicable disease must be filed with the Board of Agriculture—Permits for shipment charged at rate of 25 cents for all out-of-state dealers or shippers of agricultural seed shall secure a permit each year, before shipping seed into the state. If the seed is in bags the permit number shall appear on the tag, and if in bulk on the way-bill or bill of lading.

All out-of-state dealers shipping seed into Oklahoma shall notify the State Department of Agriculture of each shipment giving:

1. Date of shipment.

Oklahoma shall notify the State Department of Agriculture of each shipment giving:

1. Date of shipment.

2. Kind of seed or plants.

3. Amount in shipment.

4. To whom shipped.

No Hybrid seed corn shall be permitted entry into the state unless the Breeder has secured a special permit. The Breeder must meet the following requirements:

1. He must be officially recognized as a breeder in his state.

2. The Hybrid seed corn must be registered with the enforcing officer of the State Department of Agriculture giving:

a. Name and number by which the Hybrid is designated.

b. Pedigree of each component inbred, single cross, or open-pollinated variety.

c. The name of the Breeder who developed each inbred line, single cross, or open-pollinated variety in the hybrid parent stock.

Trucks and other motor conveyors, transporting seed on the public highways shall have available at all times for inspection, a bill of lading, waybill or delivery receipt showing:

1. Name of the shipper or party from whom purchased.

2. Name and address of party to whom the seed are to be delivered.

3. Kind and amount of each separate kind of seed.

Name of driver and truck line making delivery.

OREGON

Law 1937

INFORMATION REQUIRED ON ANALYSIS TAGS

(A) Agricultural or turf seed. Tag each lot. Not less than 8 point type.

Commonly accepted name.
Percentage by weight of pure seed.
Percentage by weight of weed seed.
Percentage by weight of other crop seeds.
Percentage by weight of inert matter.

Name and number per pound of noxious weed seeds present.
 Percentage of germination together with year tested.
 Percentage of hard seed when present.

Country or state where grown.
 The name and address of the vendor of such seeds.

(B) Mixtures. Tag each lot.

That such seed is a mixture.

The name and per cent of each kind present in excess of 5% by weight of the total.

Percentage of weed seeds.

Percentage of inert matter.

Name and number per pound of each noxious weed seeds present

- ious weed seeds present. Percentage of germination of each kind present in excess of 5% by weight of the tal, together with the year tested.

 7. The name and address of vendor.

(C) Vegetable seeds.* Each separate container.**

1. Kind and variety of seed.

BENT GRASSES

Astoria Seaside Colonial

Growers-Shippers

LEWIS & CLARK SEED CO.

Astoria

Oregon

GOODING

IDAHO

All Varieties Idaho Clovers and Alfalfas

Inquiries Solicited

The Gooding Seed Co. Gooding, Idaho

headquarters for **MICHIGAN** GROWN **SEEDS**

RED CLOVER ROSEN RYE VETCH

H. C. KING & SONS, INC. BATTLE CREEK MICHIGAN

Noxious Weed Free High Germination NEW CROP FANCY KENTUCKY BLUE GRASS

Harvested, cured, and processed under our personal supervision to insure maximum germination.

Specially Cleaned to eliminate noxious weeds.

Your critical trade will appreciate our product.

KELLOGG-KELLY SEED CO. ST. JOSEPH, MISSOURI

- 2. Percentage of germination together with year tested, or in lieu of this requirement the words "Oregon standard germination" may be used, when the percentage of germination is equal to or greater than the established Oregon standards. (See page 102 for standards.)
- Name and number per pound of each noxious weed seed present.
 Name and address of person or firm who put up or packeted the seeds and labeled same.

*Beets, Mangels, Turnips, and Rutabagas are classed as agricultural seeds; hence, lots over ½ pound should be tagged as such.
*Exceptions which do not need to be tagged:

(a) Certified or registered seed.

(a) Certified or registered seat.
 (b) Vegetable varieties of Peas, Beans, Corn and seed of similar size in packages weighing less than 5 pounds.
 (c) Other vegetable seeds in packets weighing not more than ½ pound each.

NOXIOUS WEEDS-Give Name and Number Per Pound

Group I—Prohibited.

White tops—Lepidium draba, Lepidium repens, Hymenophysa pubescens; Russian knapweed—Centaurea picris; leafy spurge—Euphorbia esula.

pnorna esula.

Group II

Prohibited when in excess of one in 50 grams of Alfalfa, Rye Grass and other seeds approximately the same number per pound, or when in excess of one in 25 grams of Alsike, Orchard Grass or other seed of approximately the same number per pound. Dodders—Cuscuta spp.; Canada Thistle—Cirsium arvense; Johnson grass—Sorghum halepens; Quack grass—Agropyron repens.

Group III

Prohibited when in excess of four seeds in 5 grams of Red Clover, Sweet Clover or Alfalfa.

Buckhorn plantain—Plantago lanceolata.

Buckhorn plantain—Plantago lanceolata.

Group IV
Wild morning glory or bindweed—Convolvulus arvensis; blue lettuce—Lactuca pulchella; death weed or sumpweed—Iva axillaris; Austrian field cress—Radicula austriaca; perennial sow thistle—Sonchus arvensis; puncture vine—Tribulus terrestris; toad flax—Linaria vulgaris; alkali mallow—Sida hederacea; corn cockle — Agrostemma githago; Australian burnweed or fire weed—Erechtites prenanthoides; star thistle—Centaurea melitenses. Centaurea solstitialis, Centaurea iberica; St. Johnswort or goat weed—Hypericum perforatum; wild garlic — Allium veneale; ox-eye daisy—Chrysanthemum leucanthemum; cow cockle—Vaccaria pyramidata.

Group V—Weeds noxious only in turf seeds and

cockle—Vaccaria pyramidata.

Group V—Weeds noxious only in turf seeds and lawn and turf mixtures.

Field madder — Sherardia arvensis, spotted catsear—Hypochaeris radicata; dandelions—Leontodon spp.; chickweed or big mouse ear—Cerastium vulgatum; yarrow — Achillea millefolium; rippleseed plantain — Plantago

millefolium; rippleseed plantain — Plantago major.

"STOP SALE." The Director of Agriculture shall seize any lot or parcel of agricultural, turf or vegetable seeds possessed, sold, offered or exposed for sale for planting purposes that appear to be in violation of any provisions of this act and to hold same until it is determined that the provisions of this act are being complied with. When any seed is found in violation of this act the Director or his assistants shall give written notice of such violation to the owner or person in possession of such seed and may set a time and method by which it may be relabeled, reconditioned or disposed of. If after receiving such notice, the seeds are not relabeled, reconditioned or disposed of within the given specified time, in accordance with the provisions of this act, the enforcing officer shall file a complaint in any justice court or court of competent jurisdiction. The seed may be condemned and destroyed or disposed of, or released upon such condition as the court may impose to insure that such seeds will not be sold, offered, or exposed for sale, in violation of this act.

SCREENINGS AND OTHER MATERIAL, removed in the cleaning or processing at

for sale, in violation of this act.

SCREENINGS AND OTHER MATERIAL, removed in the cleaning or processing of agricultural, turf and vegetable seeds containing any noxious weed seeds shall be destroyed or ground, or treated in a manner or by a method, established and approved by the director, that will destroy the viability of all noxious weed seeds therein. Screenings or other material containing noxious weed seeds may be moved under permit is sued by the director or his duly designated deputies, to another place or conditioning plant for further cleaning or processing.

LABORATORY AND TESTS

Seed Laboratory at Corvallis is under the Dean of Oregon State College of Agriculture, cooperating with the U. S. Department of Agriculture,

ALFALFA

Montana Nebraska

Wyoming

Kansas

(U. S. Verified Origin)

Sweet Clover

Yellow

(Mustard and Thistle Free)

Millet Cane Sudan

Ask for Prices and Samples Carloads or Less

Griswold Seed & Nursery Co.

Lincoln, Nebr.

HAMILTON SEED and COAL COMPANY

Cedar Rapids, Iowa

Wholesale Dealers

TIMOTHY **ALSIKE** RED CLOVER **ALFALFA** HYBRID CORN

Wholesale Seeds

Farm Seeds **Imported Grasses** Lawn Mixtures Hybrid Corn



Seaboard Seed Company

Philadelphia, Penna.

NORTHERN GROWN **FARM SEEDS**

Brome Grass Sweet Clover Red Clover



German

Hungarian

Early Fortune White Proso



STORAGE

Best of Warehousing facilities available for the storing and distribution of seed stocks.



LESLIE EDGERTON

334 North 1st Street

MINNEAPOLIS

MINN.

R. Hyslop, Head of Division of Plant Industry.

Mrs. Louisa Kanipe, Analyst, U. S. Depart-

ment of Agriculture.

Free Tests to farmers—1 Purity and 1 Germination Test per year. (Between Dec. 1 and June 30 of succeeding year.)

(a) Purity Tests:

1. Lawn or pasture mixtures and special mixtures\$5.00
2. Alfalfa, clovers (including sweet and bur clover), black medic, crested wheatgrass, win-

yery dirty samples requiring an unusual amount of work or screenings at 60 cents per hour.

(b) Germination Tests:

Paspalum, bluegrass, fescues (except meadow), orchard grass,

Johnson grass, sugar beet (sprout test), Bermuda, bent-grasses, red top, meadow fox-tail, tree seeds, and fluorescence tests on English ryegrass..... 1.05
All seeds not listed above.... Where more than one germination is made on mixed vetch 55 cents will be charged for the first and 50 cents for each extra

(c) Any seed not listed will be charged the fee in the appropriate class above.

(d) Examinations and identifications..

(e) Extra copies of reports will be charged for at 10 cents each.

ENFORCEMENT

Under the Director of the State Department of Agriculture, J. D. Mickle, Salem, Oregon. Enforcing officer, Frank McKennon, chief Bureau of Plant Industry.

License fee \$2.50 per calendar year. Secured from State Director of Agriculture. Separate license fee is required for each branch, plant or warehouse.

Exemptions from license-

Any grower selling seeds of his own pro-duction exclusively.

(2) Retailer selling only vegetable and flower seeds in packets not in excess of ½ pound which were packeted by a licensed

PENNSYLVANIA

Law of 1921

INFORMATION REQUIRED ON ANALYSIS TAGS

(A) Agricultural Seeds. 10 pounds or more.

Commonly accepted name.

Percentage of pure seed.
Percentage of weed seed. (Prohibit 3%)
Name and number per ounce of each noxious
weed present singly or collectively in excess

of:

(a) One in 5 grams.

(See page 106, group A.)

(b) one in each 25 grams.
(c) one in each 100 grams.

5. Percentage of germination together with month and year tested.

6. Where grown in case of Turkestan and Italian grown alfalfa or Italian and Chilian grown red clover.

7. Name and address of vendor.

(B) Mixtures. 10 pounds or more.

That such seed is a mixture.

Name and percentage of each kind of agricultural seed present in excess of 5% of the total mixture.

Percentage of weed seeds (Prohibit 3%)

rotal mixture.

Percentage of weed seeds (Prohibit 3%).

Name and number per ounce of each kind of noxious weed present in excess of one seed in each 15 grams.

Percentage of germination of each agriculture seed present in excess of 5%, together with the month and year tested.

Where grown if Turkestan or Italian alfalfa and Italian or Chilian red clover.

Name and address of vendor.

(C) Special Mixtures. 8 ounces or more.

That such seed is a mixture.
 Name of each kind of agricultural seed present in excess of 5% of total mixture.
 Percentage of weed seeds (Prohibit 3%).
 Percentage of inert matter.
 Name and number per ounce of each kind

of noxious weed seed present singly or collectively in excess of one in each 15 grams.
6. Where grown if Turkestan or Italian alfalfa and Italian or Chilian red clover.
7. Name and address of vendor.

(D) Vegetable seeds defined but excluded from labeling.

Prohibits the sale, offering or exposing for sale agricultural seeds
(a) Containing in excess of a

Containing in excess of 3% of weed

(b) Containing in excess of one or more seeds of dodder and Canada thistle to each five grams of seed.

NOXIOUS WEEDS

Wild onion or garlic—Allium species; quack grass—Agropyron repens; devil's paint brush—Hieracium aurantiacum; king devil—Hieracium species; perennial sow thistle—Sonchus arvensis; horse nettle—Solanum carolinense; bindweed—Convolvulus species.

PROHIBITED IF MORE THAN 1 IN 5

Dodder—Cuscuta species; Canada thistle—Cirsium arvense.

SEED LABORATORY AND TESTS

Seed Laboratory, State Department of Agriculture, Harrisburg, Pennsylvania. Mrs. Mary Mowry, Analyst.

Tests—Not more than five samples will be tested in any one month for any one person, firm or corporation, a fee of 25 cents must accompany the sample.

ENFORCEMENT

Department of Agriculture, Bureau of Plant Industry, Harrisburg, Pennsylvania.

RHODE ISLAND

Law of 1929

INFORMATION REQUIRED ON ANALYSIS TAGS OR CONTAINER

(A) Agricultural Seeds. Every lot.

Commonly accepted name.
 Percentage of pure seed.
 Percentage of weed seed.

Name and number per ounce of each noxious weed seed present in excess of:
(a) One in S grams.
(See page 106, group A.)

(b) One in 25 grams. (c) One in 100 grams.

5. Percentage of germination together with the month and year tested.
6. Name and address of vendor.

(B) Mixtures of not more than 2 kinds. Every lot.

That such seed is a mixture.
 Name and percentage of each kind of agricultural seed present in excess of 5% of the total mixture.
 Percentage of weed seeds.
 Name and number per ounce of each noxious weed seed present singly or collectively in excess of one seed in each 15 grams.

Headquarters High Quality

> NORTHERN MINNESOTA

SWEET CLOVER ALFALFA Timothy Red Clover Alsike Clover

Land O'Lakes Creameries, Inc.

SEED DIVISION

Minneapolis, Minnesota

A. ERTAG, Inc.

730 Fifth Avenue **NEW YORK, N. Y.**



IMPORTERS—EXPORTERS



Always BUYERS and SELLERS

RED CLOVER WHITE CLOVER **ALSIKE ALFALFA**

TIMOTHY

RYEGRASS

REDTOP

BLUEGRASS RAPE SEED

CHEWINGS FESCUE BENTGRASS

MUSTARD SEED GREEN PEAS SPLIT PEAS

SUDAN GRASS CARROT SEED

Percentage of germination of each kind of agricultural seed present in excess of 5%, together with the month and year tested.
 Name and address of vendor.

(C) Special mixtures. Every lot.

Special mixtures. Every lot.
 That such seed is a mixture.
 Name of each kind of agricultural seed present in proportion of 5% of the total mixture.
 Percentage of weed seeds.
 Percentage of inert matter.
 Name and number per ounce of each noxious weed seed present singly or collectively in excess of one in each 15 grams.
 Name and address of vendor.

(D) Vegetable seed. Every lot.

Kind of seed and variety.
 Name and address of vendor or packeter.

NOXIOUS WEEDS

Quack grass—Agropyron repens; Canada thistle—Cirsium arvense; dodder—Cuscuta species; wild mustard—Brassica arvensis and other wild brassica species; crab grasses—Digitaria species; docks—Rumex species; corn cockle—Lychnis githago; buckhorn—Plantago lanceolata; wild carrot—Daucus

carota.

"STOP SALE." Whenever the Commissioner of Agriculture receives information that agricultural seeds are being offered or exposed for sale in violation of any requirements of this act, and is of the opinion that the interests of the public so require, he may apply to the superior court of the counties of Providence and Bristol for an injunction to restrain such violation, and thereupon such court being satisfied that such seed is for sale in violation of this act, shall issue an injunction to restrain any person, firm or corporation from selling, offering or exposing for sale such seed. offering or exposing for sale such seed.

SEED LABORATORY AND TESTS

Department of Agriculture, Providence, Rhode Island. George H. Geddes.

Any citizen of Rhode Island may have 5 free tests during the year.

Fees for additional tests.

Germination—All seeds except grasses other than timothy 30 cents. Grasses, except timothy, 50 cents.

Purity-Cereals 50 cents, timothy and other crop seeds, except grasses, 75 cents. Grasses and mixtures of not more than two kinds \$1.00. Special mixtures, the actual cost of work, minimum \$1.25.

ENFORCEMENT

Under State Department of Agriculture and Conservation, Dr. G. W. Breed, Director.

310 State House, Providence, Rhode Island.

SOUTH CAROLINA

Law of 1940—Regulations of 1941

INFORMATION REQUIRED ON ANALYSIS TAGS OR CONTAINER.

- Agricultural Seeds (Unmixed). Every lot (Sec. 2). Every lot of 10 pounds or more (Sec. 18).

 - Commonly accepted name.
 Percentage of pure seed.
 Percentage of inert matter.
 Percentage of weed seeds. Prohibited if in excess of 5%, carpet grass 10%.

 - (4) Percentage of weed seeds. Frommed a in excess of 5%, carpet grass 10%. (Regulations.)
 (5) Percentage of other agricultural seeds.
 (6) Percentage of germination together with the month and year tested.
 (7) State where grown, when known, if in the United States.
 (8) Name and address of vendor.
 (9) Name and number of noxious weed seeds per ounce, present singly or collectively, if less than 15 per ounce. (Regulations.)
 (10) Net weight. (Weight and measure law.)
- (B) Mixed Agricultural Seeds. Every lot (Sec. 7). Every lot of 10 pounds or more (Sec. 18).

 - nore (Sec. 18).

 (1) That such seed is a mixture.

 (2) Name, kind of each seed entering into the mixture in excess of 5%.

 (3) Percentage of inert matter.

 (4) Percentage of weed seeds. Prohibit if in excess of 5%, carpet grass 10%. (Regulations.)

 (5) Percentage of other agricultural seeds.

 (6) Name and address of vendor.

 (7) Name and number of noxious weed seeds per ounce, present singly or collectively, if less than 15 per ounce. (Regulations.)

 (8) Net weight. (Weight and measure law.)

THE PHILADELPHIA SEED CO., INC.

ARCH & FRONT STREETS PHILADELPHIA, PA.

> *Importers* Exporters Refiners

GRASS SEEDS FIELD SEEDS PIGEON GRAINS BIRD SEEDS

- IMPORTERS
- EXPORTERS
- REFINERS

Red Clover White Clover Alsike Clover Timothy Redtop Blue Grass **Orehard Grass Rve Grass** Fancy Grasses

Lawn Seed Vetches Bird Seed

DURYEA SEED CO.. Inc.

Office and Warehouse: 18 Desbrosses St. NEW YORK, N. Y.

> Cable address DURYEASEED-NEW YORK

WM.G.SCARLETT & CO.

Office and Seed Cleaning Plant

729-743 E. Pratt St. BALTIMORE, MD., U. S. A.

> Cable Address, "Scarlett, Baltimoremd"

Grass & Field Seeds

Bird Seeds

Lawn Seeds

WHOLESALE BROKER

CLOVER SEEDS GRASS SEEDS RAPE SEEDS

From the Production to the Consuming sections.

Write, wire or phone for quotations

H. J. MAYER

99 Hudson St., New York, N. Y.

(C) Vegetable Seeds. Every package (Sec. 9). Every parcel or package of 10 pounds or more (Sec. 18).

(1) Variety. (2) Percents

(1) Variety.
(2) Percentage of purity
(3) Percentage of weed seeds. Prohibit in excess of 5%. (Regulations.)
(4) Percentage of germination.
(5) For seed which germinates less than the established standard. (Regulations.)
(See standards, page 102.)
a. Percentage of:
1. Germination exclusive of hard.
(Commissioner may limit the number tests to residents.)

Germination, exclusive of hard

seeds.

2. Hard seeds.

3. Month and year of test. Not more than 5 months shall elapse between the month the test is completed and the date of transportation or delivery for transportation in interstate commerce.

b. The words "BELOW STANDARD." in not less than 8-point type.

(D) Flower Seeds. Every package (Sec. 9). Every parcel or package of 10 pounds or more (Sec. 18).

(1) Variety.(2) Percentage of purity.(3) Percentage of germination.

Prohibits the sale, offering or exposing for sale of agricultural vegetable or

(1) Containing in excess of 5% of weeds, carpet grass 10%.
(2) Containing 15 or more noxious weed seeds, singly or collectively, per ounce.

NOXIOUS WEEDS—Prohibit 15 or more per ounce, singly or collectively. label if less.

Wild Onion or Wild Garlic, all Dodders, Corn Cockle, Cheat or Chess, Wild Oats, Johnson Grass, Wild Mustard, Canada This-tle, Black Mustard, Sand Bur, Nut Grass.

CONFISCATION AND DISPOSITION OF SEIZED SEEDS.

SEIZED SEEDS.

Any agricultural, vegetable or flower seeds offered or exposed for sale which do not comply with the requirements of the seed act shall be seized and condemned, sold or destroyed by the Commissioner of Agriculture, Commerce, and Industry or his duly authorized representative, the proceeds from such sale shall be converted into the State Treasury. The sale shall be made at the court house door in the county in which the seizure was made, and shall be advertised for thirty days in a newspaper in the county, or if no newspaper be published in the nearest county. The advertisement shall state:

(1) Name and variety of the seed.

(2) The quantity.
(3) Why seized and offered for sale.
(4) Time and place of sale.
The Commissioner may release seed so withdrawn from sale when the requirements of this act have been compiled with and upon payment of all costs or expenses incurred in such seizure and withdrawal.

Department of Agriculture, Columbia, South

Carolina.
Commissioner may limit the number of free tests to residents.
Fee for purity tests \$2.00, germination tests tests to residents.
Fee for purity tests \$2.00, germination tests \$1.00 to non-residents.

ENFORCEMENT AND REGULATIONS

Commissioner of Agriculture, J. Roy Jones, Columbia, South Carolina.
License—Payable January 1st annually.
\$1.00—Where only boxed package vegetable or flower seed are handled.
2.50—Where gross business is less than \$200, with or without package vegetable or flower seeds.
5.00—Where gross business is over \$200 and less than \$500.
10.00—Where gross business is over \$500 and less than \$1,000.
25.00—Where gross business is \$1,000 or more.

25.00—Where gross business is \$1,000 or more.

Commissioner may withdraw from sale seed not having reasonable germination or that are extremely impure, notwithstanding they may be properly labeled, if such withdrawal is in the interest of normal crop production.

Agricultural seeds shall have a germination of 75% (except legumes), if the germination is below 75% and above 49% they shall be marked "BELOW STANDARD IN GERMINATION," if the germination is less than 50% (except legumes) the seed cannot be sold.

Germination standards of crotarlaria and less-

be sold. Germination standards of crotarlaria and lespedeza shall be 60% calculated as "pure live seed." If below 60% and above 39% "pure live seed" it must be labeled "BELOW STANDARD." If less than 40% "pure live seed" it cannot be sold. Germination standards for other legumes shall be 75% calculated as "pure live seed." If below 75% and above 49% "pure live seed." It shall be labeled "BELOW STANDARD." If below 50% "pure live seed" it cannot be sold.

seed it shall be labeled "BLLOW STAND." If below 50% "pure live seed" it cannot be sold.

Variety. The vendor will be held responsible for declaring the variety of all seed not clearly distinguishable from other varieties.

Quantity to be labeled. All agricultural, vegetable or flower seed offered or exposed for sale, shall bear standard tag or label except seed sold across the counter from bin or container when such container carries standard label in full view.

A mixture means seed consisting of more than one kind or variety each present in excess of 5% of the whole.

Certified and registered seed must have been produced in accordance with the procedures and in compliance with the rules and regulations of an officially recognized seed certifying agency.

SOUTH DAKOTA

INFORMATION REQUIRED ON ANALYSIS TAGS OR CONTAINERS.

(A) Agricultural Seeds. Every lot.

(1) Commonly accepted name of:

Kind or,
Kind and variety or,
Kind and type.

b. Kind and variety or,
c. Kind and type.

(2) Lot number or other lot identification.
(3) Percentage of purity.
(4) Percentage of inert matter.
(5) Percentage of weed seeds.
(6) Percentage of other agricultural seeds.
(7) Percentage of:
a. Germination, exclusive of hard seeds.
b. Hard seeds.
c. Month and year of test. Test shall have been completed within a nine month perid, exclusive of the month in which it was completed.

Following a and b "Total germination and hard seed" may be given if desired.
(8) State and county where grown, for alfalfa. red clover and field corn (except hybrid).
(9) Name and address of person who labels the seed, or who sells, offers or exposes said seed for sale.
(10) Name and number of each kind of secondary positions were seed, per ourses in

said seed for sale.

(10) Name and number of each kind of secondary noxious weed seed, per ounce in groups B1 and B2 and per pound in B3 and B4 when present singly or collectively in excess of:

a. I seed in each 10 grams.

(See page 106, Group B.)

b. 1 seed in each 25 grams.

Act of 1941

c. 1 seed in each 50 grams. d. 1 seed in each 100 grams. (B) Mixed agricultural seeds. Every lot.

Same as for unmixed seed, except that it must be called "Mixed" or a "Mixture" and the information required under items (A) 1, 3 and 7 shall be given for each agricultural seed present in excess of 5% in the order of its predominance.

(C) Vegetable seeds. Every lot.

(1) Name of kind and variety.
(2) For seed which germinates less than the minimum standard established by the State Secretary of Agriculture. (See page 102 for standards.)
a. Percentage of germination, exclusive of hard seed.
b. Percentage of hard seed.
c. Month and year test was completed. Test shall have been completed within a nine month period, exclusive of the month in which it was completed.
d. Words "BELOW MINIMUM STANDARD" in not less than 8-point type.

8-point type.

(3) Name and address of person who labels the seed, or who sells, offers or exposes said seed for sale.

Prohibits the sale, offering or exposing for sale, of agricultural or vegetable seed.

Unless the test for germination has been completed within a nine month period.
 Containing primary noxious weeds subject to tolerances.

NOXIOUS WEEDS

Primary noxious weed seeds

PROHIBITED IN SEED SUBJECT TO TOLERANCES

Field bindweed—Convolvulus arvensis; Leafy spurge—Euphorbia esula, and E. lucida; Perennial peppergrass—Lepidium draba; Russian knapweed Centaurea repens; Perennial sow thistle—Sonchus arvensis; Canada Thistle—Cirsium arvense; Quack grass—Agropyron repens; Horse nettle—Solanum carolinense.

Secondary noxious weeds.

Wild oats—Avena fatua; Dodders—Cuscuta spp.; Wild mustards—Brassica arvensis, B. nigra, B. juncea; Penny cress—Thlaspi arvense; Ivy leaved morning glory—Ipomea hederacea; Hedge bindweed—Convolvulus sepium; Wild carrot—Daucus carota.

FARMERS are exempt from complying with provisions of this act when selling corn, wheat, oats, barley, rye, flax, spelt, emmer, buckwheat, sorghum, beans and peas when grown, sold and delivered on his premises to the purchaser.

the purchaser.

"STOP SALE" order may be issued and enforced by the State Secretary of Agriculture to the owner or custodian of any lot of agricultural or vegetable seed which he finds in violation of any of the provisions of this act. No such order shall be issued or enforced without first having given the owner or custodian an opportunity to comply with the act or withdraw the seed from sale. If the seed has been denied sale as provided in this paragraph, the owner or custodian shall have the right to appeal from such order to a court of competent jurisdiction where the seeds are found, praying for a judgment as to the jurisdiction of said order and a discharge of such seed from the order prohibiting the sale in accordance with the findings of the court.

EIZURE. Any lot of agricultural or vegeta-ble seed not in compliance with the provisions

of this Act snau be subject to seizure on complaint of the State Secretary of Agriculture to a court of competent jurisdiction in the area in which the seed is located. If the court finds the seed to be in such violation of the Act and orders the condemnation of said seed, it shall be processed, destroyed, relabeled, or otherwise disposed of in compliance with the rules of the State Secretary of Agriculture; Provided, that in no instance shall such disposition of said seed be ordered by the court without first having given the claimant an opportunity to apply to the court for the release of said seed or permission to process or relabel it to bring it into compliance with this act.

SEED LABORATORY AND TESTS

Department of Agronomy, South Dakota. State College of Agriculture, Brookings, South Dakota. E. L. Erickson—Ass't Agronomist in charge

of Seed Laboratory Charges for laboratory services-

ENFORCEMENT AND REGULATIONS

Enforcement under Commissioner of Agricul-

CERTIFIED SEED.

The Secretary of Agriculture has authority

- Establish a seed certification system and make rules and regulations necessary.
- Designate the names of kinds, varieties and strains, and establish the grades and standards of quality allowed in seed stock which may become eligible for field registration or certification of the seed crop.

- Prescribe all labels, seals or certificates that shall be used in relation to seed grown, handled or offered for sale in South Dakota as "registered," "certified," "pedigreed," "clite," "foundation seed," or "inspected seed."
- Cooperate with managers of any seed cleaning, treating or processing plants, or individual or person within or without the state that has proper facilities and equipment to handle seed which is eligible for registration or certification.
- Cooperate and assist in selection, testing and growing of seed for certification purposes, and in the arrangement for increase and distribution of improved and foundation seed stock.
- To fix and establish an equitable schedule of fees and charges which shall be uniform throughout the state for the inspection and certifying of South Dakota seed, and to collect all such fees and charges.

Labeling and Representing Registered and Certified Seed.

All seed grown in South Dakota or transported into this state must have the approval and authorization of the Secretary of Agriculture before it may be offered for sale as "registered," "certified," "pedigreed," "elite," "foundation stock" or "inspected seed."

Hybrid Seed Corn

Any seed corn sold as hybrid must represent the first generation of a cross between strains of different parentage and involve lines of corn of a high degree of inbreeding or close breeding or their combinations. Such cross shall be produced by cross-fertilization controlled either by hand or by detasseling at the proper time.

the proper time. Any person or firm desiring to sell hybrid seed corn is réquired to register with the South Dakota State Department of Agriculture, and to furnish the pedigree of such hybrid seed corn, and when called for by the Department of Agriculture, shall furnish a sample not to exceed one quart for the purpose of testing.



Registered—Certified

ALFALFA SEED

Stocks Available for Immediate Shipment-Spot or Future Delivery

All of Our Seed Tested and Graded

BERMUDA GRASS SEED

High Purity and Germination

We are equipped with the latest type machines to hull Bermuda. By using hulled seed, germination occurs within ten days.

Your inquiries and orders cordially invited.

The Yuma Co. Farmers Marketing Ass'n

BOX 169

YUMA, ARIZONA

ARIZONA FIELD SEEDS

ALFALFA BERMUDA

THUNDERBIRD BRAND

CLOVERS

HEGARI

MILO MAIZE

MARTIN MILO

ARIZONA'S LARGEST & MOST RELIABLE SEED HOUSE SESBANIA

ATLAS SORGO

SUDAN

TENNESSEE

Act Effective July 1, 1939

INFORMATION REQUIRED ON ANALYSIS TAGS

(A) Agricultural Seeds. On half bushel or more.

- Commonly accepted name.
 Percentage of pure seed.
 Percentage of weed seed.
- Percentage of other crop seed. Percentage of inert matter.
- Name and number per pound of noxious weed seeds which are present.

 Percentage of germination and hard seeds together with the month and year tested.
- Where grown.
- Name and address of person or firm responsible for the information on tag, as well as consignee's name and address.

(B) Mixtures.

1. That such seed is a mixture.

The kind and percentage of each kind of agricultural seed present in excess of 10% or more of the mixture, and items 3, 4, 5, 6, 7, 8 and 9; section (A).

(C) Vegetable and Flower Seed.

Mentioned only under annual \$1.00 license fee.

(D) Hybrid Corn.

Any seed of field, sweet or popcorn may not be offered as "hybrid corn" unless such seed represents the first generation of a cross between strains of different inbred parentages and involving two or more lines of corn or their combinations. Require names of originator(s) and pedigree, including name or variety or parentage of said hybrid corn, to be registered with the Commissioner of Agriculture.

NOXIOUS WEEDS

Canada Thistle Corn Cockle

All Dodders*
Oxeye Daisy
Quack Grass
Johnson Grass { Prohibited except in unhulled
Wild Onion { crimson clover.
Commissioner of Agriculture may prescribe a
maximum number of noxious weeds per pound.

* Regulation Feb. 24, 1941. Maximum dod-der in lespedeza 100 per pound.

CERTIFIED

Use of word "Certified" limited to seed certified by a certifying agency or to seed registered by the International Crop Improvement Association.

Certification tag must show:

1. Grower's name or number and address.

Name and address of certifying agency. The state, province, territory or county where grown.

LABORATORY

State Department of Agriculture, Nashville, Tenn. F. H. Spanier, Analyst.

ENFORCEMENT

C. C. Flanery, Commissioner of Agriculture; V. L. Fuqua, Supt. and State Chemist.

The Commissioner of Agriculture is authorized

Prescribe the type of tag or label.
 prescribe the type of stamp or other evidence of payment of the inspection fee.
 Fix the minimum percentages of purity and germination for agricultural seeds and mixtures.
 Fix the maximum number of noxious weed seeds per pound.
 Make and promulgate such rules and regulations as may be necessary for the enforcement of this act.

the enforcement of this act.

There shall be an inspection fee of 2 cents per bushel on the following: Red Clover, White Clover, Crimson Clover, Lespedeza, Alfalfa, Kentucky Blue Grass, Timothy, Brome Grass, Orchard Grass, Redtop, Meadow Fescue, Oat Grass, Rye Grass, Millet, Bermuda Grass, Sudan Grass; together with a \$1.00 license fee, per annum. The \$1.00 license fee shall apply to vegetable and flower seed.

TEXAS

Law of 1941

INFORMATION REQUIRED ON ANALYSIS TAGS OR CONTAINER

(A) Agriculural Seeds. (Unmixed) Every lot. Use Texas tags.

- Following a & b "Total germination & hard seed" may be given if desired.

 (8) Origin of alfalfa, red clover and field corn. If origin is unknown, it must be
- (8) Origin of alfalfa, red clover and held corn. If origin is unknown, it must be so stated.
 (9) Name and address of person who labeled seed, or who sells, offers or exposes seed for sale.
 (10) Name and number of secondary noxious weeds per ounce in groups B1 & B2 and per pound in B3 & B4 if present singly or collectively in excess of:
 a. 1 in each 5 grams.
 (See page 106, group B.)
 b. 1 in each 10 grams.
 c. 1 in each 25 grams.
 d. 1 in each 100 grams.

(B) Mixed Agricultural Seeds. Every lot. Use Texas tags.

Same as unmixed seed, except that it must be called "MIXED" or a "MIXTURE" and the information required under items, 1, 3 and 7 shall be given for each agricultural seed present in excess of 5% in the order of its predominance.

(C) Vegetable seeds. Every lot.

Name of kind and variety. For seed which germinates less than the standard last established by the Commissioner of Agriculture. (See page 102 for standards.)

Percentage of germination, exclusive

a. Percentage of germination, exclusive of hard seed.
b. Percentage of hard seed.
c. Month and year of test. Test shall have been completed within a twelve month period, exclusive of the month in which the test was completed.
d. Marked "BELOW STANDARD" in not less than 8 point type.
(3) Name and address of person who labeled seed, or who sells, offers or exposes seed for sale.

Prohibits the sale, offering or exposing for sale of,

- Agricultural or vegetable seed containing primary noxious weeds subject to tolerances.

 Agricultural or vegetable seed unless the test for germination shall have been completed within a twelve month period, exclusive of the month in which the test was completed.

NOXIOUS WEEDS

(A) Primary Noxious Weeds.

PROHIBITS SEED CONTAINING ANY SUBJECT TO TOLERANCES.
Johnson grass—Andropogan halepensis
Bindweed—Convolvulus spp.
Blue Weed—Helianthus ciliaris
Dodder—Cuscuta spp.

SEED LABORATORY AND TESTS

State Seed Laboratory, Department of A ture, Austin, Texas,
Miss Wynona Robbins—Chief Analyst.
Fees for tests—Residents of Texas: Agrice seeds freet very terratible and flower and services.

B) Secondary Noxious Weeds.

Russian thistle—Salsola kali
Wire grass—Paspalum distichum
Bermuda grass—Cynodon dactylon
Wild oats—Avena fatua
Chess or cheat—Bromus secalinus
Buckhorn plantain—Plantago lanceolata
Purple nightshade—Solanum elaeagnifolium
Darnel—Lolium temulentum
Wild mustard—Brassica sinapistrum
Curly dock—Rumex crispus

"STOP SALE" orders may be issued by the Commissioner of Agriculture for any lot of agricultural or vegetable seed which he has reason to believe is in violation of any of the provisions of this act which shall prohibit the further sale of said seed until the law has been complied with. The owner or custodian of said seed may appeal from such order to a court of competent jurisdiction where the seed is found, praying for a judgment as to the justification of said order and for the discharge from such order in accordance with the finding of the court.

SEIZURE.

Any lot of agricultural or vegetable seed not in compliance with the provisions of this act shall be subject to seizure on complaint of the Commissioner of Agriculture to a court of competent jurisdiction in the area in which the seed is located. In the event that the court finds the seeds to be in violation of the act and orders its condemnation, it shall be denatured, processed, destroyed, relabeled or otherwise disposed of in compliance with the laws of the state. In no instance shall such disposition be ordered by the court without first having given the claimant an opportunity to apply to the court for its release or permission to process or relabel it to bring it into compliance with the act.

HYBRID CORN.

The first generation seed of a cross produced by controlling the pollination, and by combining two, three or four inbred lines, or by combining one inbred line or a single cross with an open-pollinated variety. Hybrid designations shall be treated as variety names.

State Seed Laboratory, Department of Agriculture, Austin, Texas.

Fees for tests—Residents of Texas: Agricultural seeds free; vegetable and flower seed purity 25c, germination 25c. Out of state firms: Purity 25c, germination 25c.

ENFORCEMENT AND REGULATIONS

Enforcement is under the Department of Agriculture, Austin, Texas.

J. E. McDonald, Commissioner.
Linden E. Jones, Chief of Seed Laboratory Division.

Certified Copy of the information required on the tag, (see (A) above) shall be filed with the Commissioner of Agriculture covering the lot of seed to be sold.

Inspection tax of not over 1 cent for each 100 pounds or fraction thereof shall be paid to the Commissioner and a tag furnished by the Commissioner shall be attached to the container of the seed offered for sale.

(These tags constitute the "tested" seed labels

(These tags constitute the "tested" seed labels and must bear the analysis (Sec. A).)

To ship Cotton seed—a certificate of field in-spection made by county or state authorities must be filed with Seed Laboratory Division,

Department of Agriculture, Austin. If fields were inspected, the per cent must be stated on the certificate. Over 2% denied entry. Cotton, Aljalja, Corn and Sorghum seed (either sweet or grain) must meet the requirement set forth by the Commissioner of Agriculture and shall bear a special tag issued by him. He shall have authority to refuse permission to ship such seed into Texas when the records and information of his agents show the seed to be inferior quality, lacking prescribed varietal purity or from diseased fields.

All planting seed shipped into Texas bearing

purity or from diseased fields.

All planting seed shipped into Texas bearing labels denoting Registered or Certified seed shall have been produced under standards equal to standards in Texas for such class of seed. If not approved they may bear Registration or

Certification tags issued by the state of origin provided such tags are plainly marked—"These tags do not meet the requirements of Registra-tion or Certification in Texas."

Prohibit use of *Red or Blue Tags* except when used by duly qualified plant breeders or certified seed growers unless such tags are marked in bold type, "Non-Registered" or "Non-Certified" seed.

Where such terms as "from officially inspected fields," "State Inspected," "Approved Seed," "Inspected Fields," "first year from Certified Seed," "as good as Certified" and similar terms are used, such written material shall plainly show the words, "Non-Registered" or "Non-Certified."

GARDEN, FIELD FLOWER SEEDS

MERCHANTS OF THE SOUTHWEST have at their command large stocks of Gar-den, Field and Flower Seeds, centrally located for receipt of overnight shipments.

NICHOLSON'S SEEDS have set the standard of quality in the Southwest for more than 50 years. If you do not receive our wholesale list, please send us your name.

ROBERT NICHOLSON SEED CO.

DALLAS

TEXAS

UTAH

Revised Statutes of 1939 and Regulations

INFORMATION REQUIRED ON ANALYSIS TAG

- (A) Agricultural Seed. Every lot.
 - 1. Commonly accepted name. Lot number or designation.

 - Percentage of pure seed.
 Percentage of weed seed (Prohibit over 1% by Regulation 5).
 - Name and number per pound, not to exceed 90 per pound, of secondary noxious (C) Special mixtures. Every lot. weeds.
 - Percentage of germination together with the month and year tested.
 - Where grown.
 - 8. Name and address of vendor.

(B) Mixtures of not more than two kinds. Every lot.

- That such seed is a mixture.
- Lot number or designation.
- Name and percent of each kind of agricultural seed present in excess of 5% of the total mixture.

- Percentage of weed seeds (Prohibit over 1% by Regulation No. 5).
- Name and number per pound, not to exceed 90 per pound of secondary noxious weeds.
- Percentage of germination of each kind of agricultural seed in excess of 5% together with the month and year tested.
- Where grown.
- 8. Name and address of vendor.

- 1. That such seed is a mixture.
- Lot number or designation.
- Name of each kind of agricultural seed present in excess of 5% of the total mixture. Percentage of weed seeds (Prohibit over 1% by Regulation No. 5).
- Percentage of inert matter.
- Name and number per pound, not to exceed 90 per pound of secondary noxious ceed weeds.
- 7. Where grown.
- Name and address of vendor

SNELSON SEED CO.

Main Office Savannah, Ga.

Jacksonville Florida

Chester South Car.

Ask for quotations, stating quantities wanted

Abruzzi Rye

Corn, field

Oats

Austrian Winter

Catton

Peanuts

Peas

Cowpeas

Bahia Grass

Popcorn

Rape (Dwarf Essex)

Beardless Barley

Crotalaria

Redtop

Beggarweed

Crowder Peas

Rice

Bene

Dallis Grass

Bermuda Grass

Egyptian Wheat

Ryegrass

Hegari

Sesbania

Buckwheat

Kudzu

Sorghums

Carpet Grass

Soybeans

Lespedeza Lupine

Clover

Alyce

Chufas

Burr

Millets

Sunflower

Crimson White

(Cattail and Brown Top) Velvet Beans

Sudan Grass

Mung Beans

Vetch Wheat

Wholesale Field and Grass Seed



Ontario, Oregon

Hardy Idaho and Oregon Northern Grown Seeds

ALFALFAS

Ladak Grimm

Orestan Common

GRASSES

Chewings fescue

Orchard grass

Bulbous bluegrass Bromus inermis

Timothy Fall fescue Poa ampla

Meadow fescue Standard crested wheatgrass Fairway crested wheatgrass Red creeping fescue

Slender wheatgrass

CLOVERS

Fancy red clover Strawberry clover Yellowblossom Sweet Alsike clover

White Dutch Ladino clover

Austrian Field Peas CARLOTS OR LESS

Growers

CROTALARIA RICE CATTAIL MILLET BLUE LUPINE SEED CORN

SOY BEANS

OTOOTANS - PALMETTO CLEMSON - AVOYELLES MACOUPIN - MAMLOXI

All Seed Graded and A-1 Quality

We Will Appreciate Your Inquiries for Sample and Prices

Wholesale Only

Riemers' Farms

ELBERTA

ALABAMA



COKER'S

famous Strains of VICTORGRAIN OATS FULGRAIN DATS **STANTON DATS** ABRUZZI RYE HARDIRED WHEAT REDHART WHEAT

> as well as Coker's improved strains of

Cottonseed & Cornseed. Also Soybeans, Cowpeas, Velvet Beans, etc.



Wholesale Seedsmen Orangeburg, S. C.

"Serving the South Since 1919"

(D) Vegetable seeds same as agricultural seeds. See (A) above.

> Prohibit the sale, offering or exposing for sale agricultural or vegetable seeds containing

- (a) Primary noxious weeds.
- (b) In excess of 90 secondary noxious weed seeds per pound.
- (c) In excess of 1% of weed seeds.

NOXIOUS WEEDS

${\it Primary-Prohibited}.$

White top, Lepidium draba; Wild Morning Glory, Convolvulus arvensis; Canada thistle, Cirsium arvense; Russian Knapweed, Centaurea picris; Perennial Sow Thistle, Sonchus arvensis; Perennial Ragweed, Ambrosia Psilostachya; Leafy spurge, Euphorbia esula; Puncture vine, Tribulus terrestris; Night shade Ground cherry), Physalis heterophylla; Blue flowering lettuce, Lactuca pulchella; Quack grass, Agropyron repens; Bermuda grass, Cynodon dactylon.

Secondary

Give name and number per pound if not to exceed 90 per pound; prohibited if over. Whorled or Poison milkweed, Asclepias galioides; Burdock (great), Arctuim lappa (small), A. minus; bull thistle, Cirsium lanceolatum; Cockle bur, Xanthium orientale; Alfalfa dodder, Cuscuta spp.; Perennial ground cherry. Physalis longifolia; Poverty weed, Iva axillaris; Larkspur, Delphinium menziesii; Delphinium cuculatum; Water Hemlock, Cicuta maculata; Buckhorn Plantain, Plantogo lanceolata.

SEED LABORATORY AND TESTS

State Seed Laboratory.
Department of Agriculture.
Salt Lake City, Utah.
Georgeanna Cameron, Analyst.
Tests—subject to rules by the State Board of

REGULATIONS

Screenings must be ground or otherwise devitalized under supervision of State Board of Agriculture. Screenings of Alfalfa, Clover or Timothy or other seed of sufficient value

which do not contain noxious weeds may be released by authority of State Board of Agriculture.

- Use the Rules for Seed Testing recommended by the Official Seed Analysts Assn.
- Primary Noxious Weeds are prohibited in any quantity.
- Secondary Noxious Weeds prohibited when more than 90 per pound.
- Total of more than 1% of weed seeds pro-hibited.
- Quarantine and disposal of any seed, feed or hay containing any primary noxious weed, plant or seeds, to be made by District Agri-cultural Inspectors.
- 7. Seeds or Feeds Quarantined because of primary noxious weeds not permitted to be transported within or without the state. May be cleaned under supervision of an official representative of State Board of Agriculture. If found free from primary noxious weed seeds, may be released for distribution, otherwise must be destroyed.

Packet Seeds—Seeds commonly sold in small package or from bulk in small amounts may be exempt from the labeling provisions, provided the container containing such packages or seeds is labeled. The vendor's name and address must appear on each smaller container in said lot of seeds.

Original Label—The analysis label of original seller may be retained for a period not to exceed 3 months from the date of delivery.

Quarantine No. 9A

Certificate of freedom from primary noxious weeds—All agricultural and vegetable seeds, hay, straw and hay or straw products of any nature must bear a certificate of the complete absence of the seeds of all "Primary noxious weeds," issued by an authorized inspector at the point of origin, before such seeds can be entered into interstate commerce for shipment into Utah.

interstate commerce for shipment into Utah. Carrier to hold for inspection—All agricultural and vegetable seeds, hay, straw and hay or straw products of any nature, arriving in the state from points outside, shall be held by the carrier until released by an authorized inspector of the Utah State Board of Agriculture. Any agricultural product imported in violation of this quarantine must either be returned to the point of origin or be destroyed by the owner under the supervision of an authorized inspector of the State Board of Agriculture.

VERMONT

Law of 1926 As Reprinted 1933

INFORMATION REQUIRED ON ANALYSIS TAG

- (A) Agricultural Seeds. Ten pounds or more.

 - The commonly accepted name.
 Percentage of pure seed.
 Percentage of weed seed.
 Name and number per ounce of each noxious weed present singly or collectively in excess
 - of:
 (a) one seed in each 5 grams.
 (See page 106, group A.)
 (b) one seed in each 25 grams.
 (c) one seed in each 100 grams.

 5. Percentage of germination together with the month and year tested.
 6. Where grown in case of imported alfalfa, clover, alfalfa and orchard grass.
 7. Name and address of vendor.

(B) Mixtures of not more than two kinds. Ten pounds or more.

- Kinds. 1en pounds or more.
 That such seed is a mixture.
 Name and percentage of each kind of agricultural seed present in excess of 5% of the total mixture.
 Percentage of weed seeds.
 Name and number per ounce of each noxious weed seed present singly or collectively in excess of one seed in each 15 grams.
 Percentage of germination of each kind of agricultural seed present in excess of 5% together with the month and year tested.
 Where grown in case of imported alfalfa, red clover and orchard grass.
 Name and address of vendor.

- (C) Special mixtures. Eight ounces or more.
 - 1. That such seed is a mixture.

- 2. Name of each kind of agricultural seed present in proportion of 5% of the total mixture.
- Percentage of weed seeds.
 Percentage of inert matter.
 Name and number per ounce of each kind of noxious weed seeds present singly or collectively in excess of one seed in each 15
- grams.

 6. Where grown in case of imported alfalfa, red clover or orchard grass.

 7. Name and address of vendor.

(D) Vegetable seed not included in law.

NOXIOUS WEEDS

Quack grass; wild mustard and other brassicas; Canada thistle; dodder; ergot; corn cockle; poison hemlock.

LABORATORY AND TESTS

Seed Laboratory. Seed Laboratory.
Agricultural Experiment Station.
Burlington, Vermont.
Mrs. Anna Lutman, Analyst.
Number of free tests and charges for additional samples to be fixed by the Director of Agricultural Experiment Station.

ENFORCEMENT AND REGULATIONS

J. L. Hills, Director of Agricultural Experiment Station at Burlington, Vermont.

License.

In January of each year each vendor must pay \$5.00 license fee for each brand of agricultural seed or mixture of agricultural seeds.

License fee not required on:
Mixed seed used solely or primarily for lawns
and golf courses.

43 YRS. OF SERVICE

Gold Medal

OUR SPECIALTIES

REDTOP TIMOTHY ORCHARD GRASS BLUE GRASS KOREAN LESPEDEZA SOY BEANS COW PEAS

LOUISVILLE SEED COMPANY

LOUISVILLE, KENTUCKY Branch Office and Warehouse LOUISVILLE, ILLINOIS

HARNY!

WESTERN CANADIAN GROWN

BROME ALSIKE **ALFALFA** TIMOTHY RED CLOVERS SWEET CLOVERS CRESTED WHEAT GRASS SLENDER WHEAT GRASS

 LEADING VARIETIES WHEAT - OATS - BARLEY FLAX - RYE

Carlot or L.C.L.

Write, phone or wire for Quotations

McCABE BROS. GRAIN CO., Ltd.

980 Grain Exchange Bldg.

WINNIPEG

CANADA

VIRGINIA

Amended and Re-enacted 1938 Regulations 1942

INFORMATION REQUIRED ON ANALYSIS TAG

(A) Agricultural seeds. Every lot of 10 pounds or more.

- 1. Commonly accepted name.*
- Percentage of pure seed.
- Percentage of weed seed. (Prohibit sale if over 3%.)
- Name and number per pound of each noxious weed seed present.
- Percentage of:
 (a) Germination, exclusive of hard seeds.
 (b) Hard seeds. (Regulation.)
 (c) Month and year of test.
- 6. Name and address of vendor.

*Seed containing more than one variety or varieties, singly or collectively must be labeled as follows:

- beled as follows:

 (a) If as much as 10% of another variety or varieties singly or collectively are present the word "mixed" must follow kind as "mixed soybeans" or "mixed cowpeas." The approximate percentage of each variety may be given.

 (b) Seed containing as few as 5% or less than 10% of another variety or varieties singly or collectively must be labeled as to kind only as "soybeans" or "cowbeans."
- "cowbeans."

 (c) Seed containing less than 5% of another variety or varieties singly or collectively may be labeled as a single va-

(B) Mixtures. Every lot.

- That such seed is a mixture.
 Name of each kind of agricultural seed present in excess of 5% of the total mixture.

 - mixture.

 (b) Mixtures containing two kinds only, of agricultural seeds, must also be labeled with the percentage of each.

 (c) If agricultural seeds present in quantities less than 5% of the total are named on label the percentage of each must be given.

 Percentage of weeds (Pachibit cale if any and in the percentage of weeds)
- Percentage of weeds. (Prohibit sale if over

Percentage of inert matter.

- Name and number per pound of each kind of noxious weed seed present.
- of noxious weed seed present.

 6. For each kind of agricultural seed present in excess of 5% give:

 (a) Percentage of germination, exclusive of hard seeds.

 (b) Percentage of hard seeds. (Regulation.)

 (c) Month and year of test.

 7. Name and address of vendor.

(C) Vegetable Seed. Every separate container.

- 1. Kind of seed and variety.

- Year for which packeted, words "packed for" shall precede the year.
 Percentage of germination, together with the month and year tested, provided the germination is less than the Virginia standards. (See page 102.)
- Name and address of person or firm who packed the seeds and labeled the same.

NOXIOUS WEEDS

Wild onion—Allium vineale: Bermuda grass—Cynodon dactylon: quack grass — Agropyron repens: Canada thistle—Cirsium arvense; hawkweed—Hieracium species: dodder—Cuscuta species (prohibited if 12 or more to one ounce of seed): Johnson grass—Sorghum halepense (prohibited if one to two ounces of seed).

SEIZURE OF SEED.

EIZURE OF SEED.

The Commissioner of Agriculture and Immigration may cause to be seized and held any lot of agricultural and vegetable seeds or mixtures of same, found to violate any of the provisions of this act until the law has been complied with or said violation otherwise legally disposed of: provided, however, that such person, firm or corporation shall have the right immediately to apply to the circuit court of the city of county in which seizure is made, for release of the same from seizure.

SEED LABORATORY AND TESTS

1112 State Office Building, Richmond, Vir-

ginia.
In charge of G. T. French, State Entomologist and Chief Botanist.
The Commissioner of Agriculture may fix the maximum number of samples tested free of charge for any one period of time for any individual firm or corporation.

SEEDS

FROM * LEWISTON STRAINS FROM SINGLE PLANTS PEAS AND BEANS OF highest QUALITY EXPERTLY GROWN CAREFULLY ROGUED PROPERLY PROCESSED SPOT OR FUTURES MARK MEANS CO. LEWISTON, IDAHO



South's Largest **Grower and Distributor**

Field & Hybrid Corn

Also carry complete line of Field & Garden Seeds

Write for Prices

WOOD &

SHENANDOAH VALLEY'S SEED **HOUSE** Car Lot Buyers FIELD AND GARDEN SEEDS

Write for Prices on

ORCHARD GRASS, BLACK WILSON SOYBEANS & KOREAN LESPEDEZA IN CAR LOTS AND LESS



The WETSEL SEED COMPANY, Inc. HARRISONBURG, VIRGINIA

ESTABLISHED 1911

DAKOTA IMPROVED SEED CO.



Mitchell and Redfield. S. Dakota

Emmetsburg, lowa

Alfalfa

South Dakota, Wyoming Common, Grimm, Cossack

U. S. Verified and State Sealed

Crested Wheat Grass

Canadian and Domestic Standard and Fairway

Brome Grass

Canadian and Dakota Grown

Kentucky Bluegrass Idaho Grown Dwarf Essex Rape

ENFORCEMENT AND REGULATIONS

Enforcement—Commissioner of Agriculture.
Regulations—Hard seeds shall not be included in the percentage of germination but may be shown on the analysis tag in the following

Total95% Broken sprouts—seedlings of crimson clover and other legumes having both cotyledons broken off or a broken hypocotyl shall not be counted as germinated.

as germinated.

Local vendor may use the wholesaler's tag for only 90 days from date of delivery.

Bermuda grass may be sold as an agricultural seed when so marked. When present in other kinds of seeds is a noxious weed.

WASHINGTON

Law As Amended to 1941

INFORMATION REQUIRED ON ANALYSIS TAG OR CONTAINER

(A) Agricultural Seeds (Unmixed) Every

Commonly accepted name of

Commonly accepted name of
(a) Kind or
(b) Kind and variety or
(c) Kind and type.
Lot number or other lot identification.
Percentage of purity.
Percentage of inert matter.
Percentage of other agricultural seeds.
Percentage of other agricultural seeds.
Percentage of veeds.
Percentage of the seeds.
Percentage of common of the seed.
(b) Hard seed.
(c) Month and year of test. Test shall have been completed within a nine month period exclusive of the month in which test was made.
Following (a) and (b) "Total germination and hard seed" may be given if desired.
Origin of alfalfa, red clover and field corn (except hybrid). If origin is unknown it must be so stated.
Name and address of person who labeled seed, or who sells, offers or exposes said seed for sale.
Name and number of each secondary noxious weed per pound when present singly or collectively in excess of
(a) One seed or bulblet in each 10 grams of Agrostis spp. Poa spp., Bermuda grass, timothy, orchard grass, fescue (except meadow), alsike and white clover, reed canary grass and other agricultural seeds of similar size and weight or mixtures within this group.
(b) One seed or bulblet in each 25 grams of ryegrass, meadow fescue, millet, alfalfa, red clover, sweet clover, lespedeza, smooth brome grass, crimson clover, Brassica spp., flax, Agropyron spp., and other agricultural seeds of similar size and weight, or mixtures within this group, or of this group with (a).
(c) One seed or bulblet in each 100 grams of wheat, oats, rye, barley, buckwheat, sorghums, vetches, and other agricultural seeds of a size and weight similar to or greater than those within this group or any mixtures within this group.

(B) Mixed Agricultural Seeds. Every lot.

Same as for unmixed seed except that it must be called "Mixed" or a "Mixture" and the information required under items (A) 1, 3 and 7 shall be given for each agricultural seed present in excess of 5% in the order of its pre-

(C) Vegetable Seeds. Every lot.

Name of kind and variety.
 For seeds which germinate less than the standard last established by the Director of Agriculture. (See page 102 for standards.)
 (a) Percentage of germination, exclusive of hard seed.

(b) Respective of hard seed.

hard seed.
(b) Percentage of hard seed.
(c) Month and year of test. Test shall have been completed within a nine month period exclusive of the month in which it was completed.
(d) The words "BELOW STANDARD."

Name and number per pound of secondary noxious weeds.

Name and address of the person who labeled seed, or who sells, offers or exposes said seed

Prohibits the sale, offering or exposing for sale of agricultural and vegetable

1. Unless the test for germination shall have been completed within a 9-months period, exclusive of the month in which the test was completed.

2. Containing primary noxious weeds subject to tolerances prescribed in the rules and regulations.

NOXIOUS WEEDS

1. Primary noxious weeds. Prohibits seed containing any subject to tolerances.
Quack grass—Agropyron repens; Canada thistle—Cirsium arvense; Bindweed—Convolvulus arvenisis and C. sepium; Perennial sow thistle—Sonchus arvensis; Hoary cress or White top—Lepidium draba, L. repens and Hymenophysa pubescens; Yellow toadhax—Linaria vulgaris; Russian knapweed—Centaurea picris; Blue flowering lettuce—Lactuca pulchella; Leafy spurge—Euphorbia esula; Camelthorn—Alhagi pseudalhagi; Austrian field cress—Radicula austriaca; Perennial peppergrass—Lepidum latifolium.

2. Secondary noxious weeds.
Alkali mallow—Sida hedcracea; Corn cockle—Agrostemma githago; Docks—Rumex spp.; St. Johnswort—Hypericum perforatum; Dodder—Cuscuta spp.; Fanweed—Thlaspi arvense; Poverty weed—Iva axillaris; Wildmustard—Brassica species; Plantain—Plantain species; Perennial ground cherry—Physalis subglabrata.

Physalis subglabrata.

"STOP SALE" orders for any lot of agricultural or vegetable seeds may be issued and enforced by the Director of Agriculture if he finds or has reason to suspect the seed is in violation of any of the provisions of this act, prohibiting further sale of said seed until he has evidence that the law has been complied with. No "Stop Sale" order shall be issued or attached without first giving the owner or custodian an opportunity to comply with the law or to withdraw the seed from sale. The owner or custodian shall have the right to appeal from such order to a court of competent jurisdiction, praying for a judgment as to the justification of said order and for the discharge of said seed from the order in accordance with the findings of the court.

cordance with the findings of the court.

SEIZURE. Any lot of agricultural or vegetable seed not in compliance with the provisions of the seed law shall be subject to seizure on complaint of the Director of Agriculture to a court of competent jurisdiction in the area in which the seed is located. If the court finds it in such violation and orders the condemnation of said seed it shall be denatured, processed, destroyed, relabeled or otherwise disposed of in compliance with the laws of the state. No such disposition of said seed shall be ordered without first having given the claimant an opportunity to apply to the court for the release of said seed or permission to process or relabel it to bring it into compliance with the act.

SCREENINGS. Any screenings or other material.

bring it into compliance with the act.

SCREENINGS. Any screenings or other material removed in the cleaning of agricultural, turf or vegetable seeds containing "Noxious weed" seeds are declared to be a menace to agriculture. and by agreement with the owner may be destroyed. Said screenings may be ground or treated in a manner approved by the Director of Agriculture that will destroy the viability of the seed before it can be used for feeding purposes. Any screenings not ground or treated may be removed from the cleaning establishment only under permit issued by the Director of Agriculture and shall be labeled "SCREENINGS CONTAINING NOXIOUS WEEDS. UNFIT FOR PLANTING OR FEEDING PURPOSES IN WASHINGTON."

SEED LABORATORY AND TESTS

Seed Laboratory, Dept. of Agronomy, State College of Washington, Pullman, Washington, E. G. Schafer in charge. Dwight D. Forsyth, see analyst. State Dept. of Agriculture, Olympia, Wash. Tests. One free test (purity and germination) will be made per year for any person residing in the state. Additional tests will be charged as follows:

FOR PURITY

Peas, beans, vetches, cereals, beets, mustards, cabbage, melons, parsnips and carrots
 Alfalfa, clovers, wheatgrasses, ryegrasses and timothy
 Bentgrasses, bluegrasses, orchard grass, fine fescues

. 1.00

2.00

HOLLENBACH'S SEED STORE

DEALERS ONION SETS

GROWERS ONION SEED

Also General Seed Line

808 W. LAKE ST. CHICAGO

Good SEED

Louisiana Grown

WHITE DUTCH **CLOVER**

(more plants per pound)

Other Grass Seeds Soy Beans

3401 acres chiefly seed crops

One of the best equipped cleaning plants in Louisiana

W. T. NOLIN

HAMBURG, LOUISIANA

FOR GERMINATION TESTS

ENFORCEMENT AND REGULATIONS

Director of Agriculture, Walter J. Robinson, Olympia, Washington.

Charles D. Gaines, State Seed Inspector.

An annual license, fee \$10.00, must be obtained from the Director of Agriculture for each separate place of business. License expires Dec. 31st of each year.

Merchants selling only seeds in sealed packages of 8 ounces or less are exempt from license fee provided seed packages bear name and address of packetor who is licensed.

WEST VIRGINIA

Law 1937 Regulations of 1942

INFORMATION REQUIRED ON ANALYSIS TAG OR CONTAINER

- (A) Agricultural Seeds. Every lot.
 - (1) Commonly accepted name of: (Regula-

Kind, Variety, or Type.

- (c) Type.

 (2) Percentage of pure seed.
 (3) Percentage of weed seed (prohibit 3%).
 (4) Percentage of other agricultural seeds.
 (Regulation.)
 (5) Percentage of: (Regulation.)
 (a) Germination, exclusive of hard seeds.
 (b) Hard seeds.
 (c) Month and year of test.
 Following a & b "Total" may be shown if desired.

Following a & b "Total" may be shown it desired.

(6) Origin of red clover, alsike clover and alfalfa.

(7) Name and address of vendor.

(8) Name and number per ounce of each kind of noxious weed seeds present in excess of:

(a) One in each 5 grams. (See page 106, group A.)

(b) One in each 25 grams.

(c) One in each 100 grams.

B) Mixtures (All mixtures — Regulations). Every lot.

- That such seed is a mixture.
 Name and percentage of each kind of agricultural seed present in excess of 5% of the total mixture.
 Percentage of weed seeds (prohibit 3%).
 For each kind of agricultural seed mentioned in (2) give percentage of: (a) Germination, exclusive of hard seeds.
 Hard seeds.

(a) Germination, excusive

(b) Hard seeds.
(c) Month and year of test.

Following a & b "Total" may be given if

- Following a & b "Total" may be given it desired.
 (5) Origin of red clover, alsike clover and alfalfa, (Regulation.)
 (6) Name and address of vendor.
 (7) Name and number per ounce of each kind of noxious weed seed present. (Regulation.)
- C) Vegetable seeds included in agricultural seed. Label as under (A).

(See page 102 for germination standards.)

Prohibits the sale, offering or exposing for sale of agricultural seed:

- (1) Containing quack grass. Canada thistle. dodder and perennial sow thistle if present in excess of one seed in five grams.
 (2) Containing in excess of 3% of weed seeds.

NOXIOUS WEEDS

Wild onion—Allium vineale; Johnson grass—Sorghum halepense; hawk weed—Hieracium species; buckhorn—Plantago lanceolata; English charlock or wild mustard—Brassica arvensis; corn cockle—Agrostemma githago: ox-eve daisy—Chrysanthemum leucanthemum; Indian mustard—Brassica junrea; star thistle—Centaurea solstitialis; wild carrot—Daucus carota; galinsoga—Galinsoga parviflora.

PROHIBITED WHEN IN EXCESS OF ONE IN 5 GRAMS:

Quack grass—Agropyron repens; Canada thistle—Carduus arvensis; dodder—Cuscuta species; sow thistle—Sonchus species.

HARDY SELECTED NORTHERN GROWN SEED

SWEET CLOVER ALFALFA RED and ALSIKE CLOVER TIMOTHY TIMOTHY and ALSIKE SEED CORN

SHIPPERS OF

CARLOTS - - MIXED CARS



Pride of the North Brand Guaranteed Highest Quality Field Seeds

WRITE FOR SAMPLES AND PRICES

TWIN CITY SEED CO.

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130 2nd St., N.E.

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Since 1873

KENTUCKY BLUE GRASS

BRENT'S PREMIUM SEEDS

Field Seeds Garden Seeds Seed Grain

> Newer Worth While Grains Balbo Rye

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Hardy Beardless Winter Barley Fulwin and Tennex Hardy Winter Oats

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LEXINGTON

KENTUCKY

CERTIFIED WISCONSIN

HYBRID SEED CORN

14 STRAINS

We have varieties adapted to every section of the northern corn belt from Illinois to Montana.

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VICLAND SEED OATS

CARLOTS OR LESS

WRITE FOR PRICES AND SAMPLE

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HIGH QUALITY

Field Seeds

CHIEF BRAND



SEED LABORATORY

Department of Agriculture, Charleston, West

Virginia. Marvin H. Snyder, Seed Analyst.

TESTS

No charge will be made for the first ten tests for any farmer, dealer, person or firm. All in excess of 10, the following charges shall be made. Purity, 50c for red, white and mammoth clovers, alsike, wheat, alfalfa, timothy, corn, soybeans, rye, buckwheat, oats, fax, kaffir corn, millet, sorghum, field peas and vetch. Purity, \$1.00 for red top, Kentucky and Canada blue grass, fescues, roughstalk meadowgrass. Purity, \$2.00 for law grass mixtures and complex field seed mixtures. All germination tests, 25c each.

ENFORCEMENT AND REGULATIONS

Department of Agriculture.
J. B. McLaughlin, Commissioner.
Certificates of Registration must be obtained from the Commissioner of Agriculture for each kind of agricultural or vegetable seed offered for sale. Application for certificate must be accompanied by fee of \$5.00 for cach kind and a certified copy of the complete information required on the analysis tag.

Certificates are void on June 30th, next—succeeding the issuance thereof.
Registration may be refused or cancelled (1) if the application does not contain the complete information required; (2) if vegetable seeds do not meet the minimum requirements of germination. (See page 102 for germination standards), (3) If agricultural seed or mixtures contain quack grass, Canada thistle, dodder species or perennial sow thistle in excess of five per ounce. (4) If such seeds or mixtures contain more than 3% by weight of weed seeds, (5) If seeds found on the market are improperly labeled or do not meet the

guarantee of the seedsman. (6) If it is found by the Department laboratory that the labels do not show the correct purity germination and noxious weed seed content. (7) Any seed registered in violation of the law or rules and regulations.

CERTIFIED SEED. Seed that has been produced and labeled in accordance with the procedures and in compliance with the rules and regulations of an officially recognized seed-certifying agency.

HYBRID SEED CORN. The following definitions and eligibility requirements are established for hybrid corn

- 1. An INBRED LINE is a line of corn that has been developed as a result of not less than five generations of controlled self-pollination.
- A SINGLE CROSS is the first generation of a hybrid between two inbred lines.
- A FOUNDATION HYBRID is a "single cross" which is to be used in the production of hybrids containing more than two inbred
- lines.

 4. A COMMERCIAL HYBRID is one to be planted for the production of feed or for any other commercial or farm use except for seed. It may be any one of the following:

 (a) A Double Cross—the first generation of a cross between two "foundation hybrids" (single crosses).

 (b) A Three-Way Cross—the first generation of a cross between a "foundation hybrid" and an "inbred line."

 (c) A Single Cross—when the single cross is to be used for commercial production and not for the production of "double" or "three-way" crosses.

 (d) A Top-Cross—the first generation of a cross between an "inbred line" and an open-pollinated variety.

open-pollinated variety.

WISCONSIN

Law and Regulations of 1941

INFORMATION REQUIRED ON ANALYSIS TAG OR CONTAINER

- (A) Agricultural Seeds (Unmixed). Every
 - (1) Commonly accepted name or kind, va-

riety or type. Lot or identification number.

- Lot of identineation number. Percentage of purity. Percentage of inert matter. Percentage of weed seeds. Prohibits, if in excess of 5%, except ragweed and foxtail which may be present up to 10%, including other weeds, singly or collectively. tively.

 (6) Percentage of other agricultural seed.

 (7) Percentage of:

Percentage of:
a. Germination, including hard seeds.
b. Hard seeds.
c. Month and year of test. Test shall have been completed within a twelve month period, exclusive of the month in which it was completed.
Origin of alfalfa, seed grains and corn. Name and address of the person who labeled the seed, or who sells, offers or exposes said seed for sale.
Name and number per ounce of each kind of secondary noxious weed seeds present singly or collectively in excess of:

1 in each 25 grams of redtop, Can-ada blue grass, Kentucky blue grass and seeds of similar size and weight, or smaller, and mixtures of such

1 in each 50 grams of timothy, or chard grass, reed canary grass I in each 50 grams of timothy, orchard grass, reed canary grass, smooth brome grass, alsike, white and red clovers, rape, alfalfa, sweet clover, rye grasses, millets, flax and seeds of similar size and weight and mixtures of such seeds.

I in each 150 grams of sudan, proso, and seeds of similar size and weight, and mixtures of such seeds.

I in each 300 grams of sorghums, buckwheat and seeds of similar size and weight, and mixtures of such seeds.

and weight, and mixtures of seeds.

e. I in each 500 grams of vetches, cereals, field corn, beans, field and canning peas, cowpeas and seeds of similar size and weight and mixtures of such seeds.

(B) Mixed Agricultural Seeds. Every lot.

Same as for unnixed agricultural seed, except that it must be called "Mixed" or a "Mixture," and the information required under items (A) 1, 3 and 7 shall be given for each agricultural seed present in excess of 5%.

(C) Vegetable seeds. Every lot.

(1) Name of kind and variety.(2) For seed which germinates less than the

standard last established by the department. (See page 102 for standards.)

a. Percentage of germination.

b. Month and year of test. Test shall have been completed within a twelve month period, exclusive of the month in which it was completed.

c. Marked "BELOW STANDARD" in not less than 8-point type.

(3) Name and address of the person who labeled the seed, or who sells, offers or exposes said seed for sale.

l'rohibits the sale, offering or exposing for sale of-

A Agricultural seeds containing primary noxious weeds subject to tolerances.

(B) Agricultural seeds containing secondary noxious weeds, singly or collectively, in excess of:

1 seed in 5 grams of the agricultural seeds listed in A-10-a.

1 seed in 10 grams of the agricultural seeds listed in A-10-b.

1 seed in 25 grams of the agricultural seeds listed in A-10-b.

1 seed in 100 grams of the agricultural seeds listed in A-10-c.

1 seed in 1.50 grams of the agricultural seeds listed in A-10-d.

1 seed in 100 grams of the agricultural seeds listed in A-10-e.

(C) Any agricultural seed containing in excess of 5% of weed seeds, except ragweed (Ambrosia elatior) and foxtail (Chaetochle spp.), which may be present either singly or collectively at a rate not to exceed 10%, if the total weed seed content does not exceed 10%.

(D) Any agricultural or vegetable seed unless the test for germination shall have been completed within a 12 month period, exclusive of the month in which the test was completed.

(E) Any alfalfa seed represented to be Grimm. Cossack or Ladak variety and any field seed corn represented to be hybrid, unless such seed is certified as to variety by a seed certifying agency which is approved by the department as satisfactory for the performance of seed certification and the official tag of such agency is properly attached to each container.

NOXIOUS WEEDS

(A) Primary Noxious Weeds.

PROHIBIT SEED CONTAINING ANY SUB-JECT TO TOLERANCES. Field bindweed—Convolvulus arvensis; Leafy spurge—Euphorbia esula; Canada thistle— Cirsium arvense; Quack grass—Agropyron repens

(B) Secondary Noxious Weeds.

Dodders—Cuscuta spp.; Wild mustard—Brassica arvensis; Indiana mustard—Brassica juncea; Buckhorn—Plantago lanceolata; Oxeye daisy—Chrysanthemum leucanthemum; Perennial sow thistle—Sonchus arvensis.

Purcell Seed Co. Inc. EVANSVILLE, IND.

SPECIALTIES:

FANCY RED TOP UNHULLED RED TOP SOY BEANS **COW PEAS**

and a General Field Seed Line

CARLOTS OR LESS

For 26 Years

WE HAVE BEEN PRODUCING

FAVORABLY KNOWN

IDAHO

GROWN

SEED

PEAS & BEANS

UNDER IRRIGATION IN HIGH MOUNTAIN VALLEYS

FILER SEED COMPANY BLACKFOOT, IDAHO

"STOP SALE"

Whenever the department or any of its duly qualified inspectors shall find in any warehouse, store, freight depot, car, truck or place of business, a lot of seed which appears to be offered for sale in violation of the seed laws of this state or regulations promulgated by this department, the inspector shall obtain fair and representative samples of such seed, mark the same for identification, and forward the same to the department for analysis. At the time of obtaining the samples, the inspector shall notify the owner or custodian of such seed in writing that the sale thereof appears to be in violation of law. The lot of seed shall not thereafter be sold or removed from the premises without permission or release by the department. The department shall cause an analysis to be made of such seed and report its findings to the owner or custodian of the seed. The analysis and report shall be made within 15 days of the date of taking the sample.

If it shall appear, from the official laboratory examination of any lot of seed, that it does not meet the requirements of the statute or is not labeled in accordance with the provisions of the seed law of the state or regulations promulgated by the department, the vendor of such seed shall be notified and be given an opportunity for a hearing under the rules and regulations of the department.

LABORATORY AND TESTS

SEED LABORATORY AND TESTS

State Seed Laboratory, Agronomy Building. Madison, Wisconsin. Henry Lunz, Analyst in charge. Fees for testing seed—25 cents, except mixtures which shall be 25 cents for each component present in excess of 5%.

ENFORCEMENT

Department of Agriculture and Markets, Ralph E. Ammon, Director, State Capitol, Madison, Wisconsin. Seed and Weed Control Section, Henry Lunz.

Lunz. Permit.

No person shall sell, offer or expose for sale in Wisconsin any agricultural or vegetable seeds without securing a permit from the Department of Agriculture, a separate permit is required for each place of business, fee \$1.00.

is required for each place \$1.00.

Permit not required for:

a. Persons selling, offering or exposing for sale, seed of their own production, provided it is sold and delivered to the purchaser only on the farm or premises where grown.

b. Persons selling seed which has been mackaged and distributed by seedsman

Persons selling seed which has been packaged and distributed by seedsman having permit.

REGULATIONS

OLATIONS

1. The Wisconsin Agricultural Experiment Association is approved as the agency satisfactory for the performance of seed certification in Wisconsin. In other states and in Canada the department approves that agency officially recognized by the department of agriculture of that state or province as satisfactory for the performance of seed certification.

2. White Blossom Sweet Clover seed containing 5% or more of mottled seed shall not be labeled as White Blossom Sweet Clover seed but shall be labeled Sweet Clover seed.

Clover seed.

Clover seed. Seed containing hard seed shall be labeled by one of the following methods:
a. Germination ...% including ...% hard seed.

b. Germination including hard Hard seed c. Germination

WYOMING

Law of 1941

INFORMATION REQUIRED ON ANALYSIS TAG OR CONTAINER.

- (A) Agricultural Seeds. Five pounds or
 - Commonly accepted name of:
 a. Kind and variety or,
 b. Kind and type.

QUALITY SEEDS

Growers

Wisconsin Seed Barley Certified Seed Corn Hybrid Seed Corn

Distributors

Northern Grown Clovers Hardy Alfalfas Reed Canary Grass

Canadian Bromus

CAR LOTS OR LESS WE SOLICIT YOUR INQUIRIES

L. L. OLDS **Seed Company**

MADISON

WISCONSIN

BUYERS — SELLERS

Timothy Alfalfa Alsike

Seed Corn

Lawn Grasses

Garden Seed

We solicit your offers and inquiries



LA GERMINADORA

Hijos de S. V. BeHotti Co.

Largest Growers of Vegetable and Field Seed in the

Argentine Republic

Importers and Exporters of All Kinds of Seed

5459 Guanacache Buenos Aires, Republica Argentina



CLOVER SEED

Grows from three to four times as fast and as large as ordinary white clover.

Makes an excellent pasture and will handle more stock per acre than any other crop.

All seed certified, sealed and shipped under State supervision.

Write for Samples and Prices

JOSEPHINE GROWERS COOP. ASSN.

Largest Growers of Certified Ladino Seed in the United States

GRANTS PASS

OREGON

(2) Lot number or other lot identification.
(3) Percentage of pure seed.
(4) Percentage of inert matter.
(5) Percentage of common weed seeds.
(6) Percentage of other agricultural seeds.
(7) Percentage of:

a. Germination.
b. Hard seeds.
c. Month and year of test.

(8) Origin of seed.
(9) Full name and address of person, firm or corporation selling, offering, exposing or transporting seeds for sale.

(B) Mixed Agricultural Seeds. Five pounds or more.

Same as for unmixed agricultural seeds, except that the requirements under items (A) I, 3 and 7 shall be given for each kind or variety present in excess of 5%.

(C) Vegetable Seeds. Five pounds or over. Label as agricultural seeds. (A)

Prohibits the sale, offering or exposing for sale or distribution of-

Agricultural or vegetable seed containing any of the seeds of the named perennial noxious weed seeds.

NOXIOUS WEEDS

Cocoa grass—Cyperus rotundus; horse nettle
—Solanium carolinense; Austrian field cress
—Roripa austriaca; camel thorn—Alhagi camelorum; Canada thistle—Cirsium arvense; field bindweed—Convolvulus arvensis; leafy spurge—Euphorbia esula; perennial ragweed
—Ambrosia psilostachya; perennial sow thistle—Sonchus arvensis; quack grass—Agropyron repens; Russian knapweed—Centaurea repens; St. John's wort—Hypericum perforatum; whitetop — Lepidium repens and draba; flowering spurge—Euphorbia corollata; ox-eye daisy—Chrysanthemum leucanthemum; spreading dogbane—Apocynum androsaemifolium; yellow cress—Roripa sylvestris;

- White leaved Franseria—Franseria discolor; Austrian peaweed—Swainsona salsula; lance-leaved sage, Salvia lanceolata.

 "STOP SALE" any agricultural or vegetable seeds containing noxious weed seeds shall be removed from sale and impounded by the Commissioner of Agriculture, his duly authorized seed inspectors or agents and shall be released only upon the following conditions:
 - Complete destruction.
 - Removal outside the boundaries of the
 - Recleaned so that no noxious perennial weed seeds are present.
- SCREENINGS of any seeds or grains offered or exposed for sale shall be labeled as such and not sold as seed. They shall be free of noxious, perennial weed seeds. Screenings found to contain noxious weed seeds shall be subject to seizure and destruction by the Commissioner of Agriculture, his duly authorized agents or inspectors.

LABORATORY AND TESTS

Agricultural Experiment Station.
Laramie, Wyoming. Lambert C. Erickson,

Laramie, Wyoming. Lambert C. Erickson, analyst.
Charges of fifty cents will be made for each test, however ranchers and farmers may secure two tests free each calender year.
CERTIFICATE OF REGISTRATION shall be obtained by each person, firm, or corporation before selling, offering or exposing for sale or distribution any agricultural or vegetable seed, such certificate expiring December 31st of each year.
Applications for certificate of registration shall be accompanied by:

a. Name and address of the person, firm, or

- a. Name and address of the person, firm, or corporation to which the certificate is to be issued.

 b. The location of the place of business.

 Personal for the place of business.
- Payment of one dollar (\$1.00).

STATE TAG. The authorized labeling tag may be furnished by the State Department of Agriculture at a cost of one cent each.

FEDERAL SEED ACT—INTERSTATE COMMERCE

August 1939

INFORMATION REQUIRED ON ANALYSIS TAG OR CONTAINER

- (A) Agricultural seeds (unmixed) Every lot, effective February 1940

 - 1. Name of:

 (a) Kind or
 (b) Kind and variety or
 (c) Kind and type.
 - 2. Lot number or other identification. Percentage of pure seed.
 - 4. Percentage of other crop seed. Percentage of inert matter.
 - Percentage of weed seeds.
 - Name of noxious weed seed and rate of oc-currence expressed in accordance with and not to exceed the rate allowed by the law and regulations of the State into which the seed is transported.
 - 8. Percentage of germination exclusive of hard
 - 9. Percentage of hard seeds if present.
 - 10. Calendar month and year germination test was completed. No more than 5 calendar months shall have elapsed between the last day of the month in which the germination test was completed and the date of transportation or delivery for transportation in interstate commerce. (Regulation.)
 - interstate commerce. (Regulation.)
 Origin of alfalfa, red clover and field corn except hybrid corn; if unknown, that fact shall be stated. Whenever such seed originates in more than one State, the name of each State and the percentage of seed originating in each State shall be given in the order of its predominance. (Regulation.)
 Name and address of person transporting the seed in interstate commerce or the name of person to whom the seed is shipped together with the code designation of the shipper.

(B) Mixtures

As unmixed except that the information required under items 1, 3, 8, 9, 10 and 11 shall be given for each agricultural seed component present in excess of 5% of the whole.

(C) Vegetable seeds-Effective August,

- 1. Name of kind and variety.
- Name and address of person who transports the seed in interstate commerce or the per-

son to whom the seed is shipped, together with the code designation of the shipper. For seed which germinates less than the Standard established by the Secretary of Agriculture:

- Percentage of germination exclusive of hard seed.
- 4. Percentage of hard seed, if present.
- Calendar month and year the test was completed. No more than 5 calendar months shall have elapsed between the last day of the month in which the germination test was completed and the date of transportation or delivery for transportation in interstate commerce. (Regulations.)
- The words "Below Standard" in 8 point type.

CERTIFIED OR REGISTERED SEED .- The

CERTIFIED OR REGISTERED SEED.—The terms "certified seed" and "registered seed" mean seed that has been produced in accordance with the procedures and in compliance with the rules and regulations of an officially recognized seed-certifying agency.

HYBRID SEED CORN.—The term "Hybrid seed corn" means the first-generation seed of a cross produced by controlling the pollination, and by combining two, three, or four inored lines, or by combining on inbred line or a single cross with an open-pollinated variety. Hybrid designations shall be treated as variety names.

RECORDS.—Each person handling agricultural seed subject to the act shall keep for a period of 3 years a complete record of each lot of agricultural seed handled, except that any seed sample may be discarded 1 year after the entire lot represented by such sample has been disposed of by such person.

been disposed of by such person.

SCREENINGS.—Screenings of any seed subject to this Act, unless they are not intended for seeding purposes; and it is stated on the label, if in containers, or on the invoice if in bulk, that they are intended for cleaning, processing, or manufacturing purposes, and not for seeding purposes, shall not be shipped in interstate commerce. The term "screenings" means chaff, sterile florets, immature seed, weed seed, inert matter, and any other materials removed in any way from any seeds in any kind of cleaning or processing and which contains less than 25% of live agricultural or vegetable seeds.

AGRICULTURAL MARKETING SERVICE ANNOUNCEMENTS:

Aug. 24, 1940—The use of "Affidavit Grimm Alfalfa" phrase is prohibited. The word

"affidavit" is not a part of the name of the kind, type or variety which is required to be stated on the label.

Sept. 23, 1940—Labeling Sweet Clover: If there is any uncertainty as to the proportion of sweet clover that is white blossom, the seed should be labeled as to kind only; namely, sweet clover. It is suggested that shippers of domestic sweet clover seed in interstate commerce will be adequately protected if they assume that yellow blossom sweet clover is present in the seed in a quantity four times the quantity of mottled seeds present. For example, if a sample of sweet clover contains 1.3% of mottled seed, it should be considered to contain 5.2% yellow blossom sweet clover. The seed, therefore, should be labeled as sweet clover or in such a manner as to show that it is a mixture consisting of white blossom and yellow blossom sweet clover and the percentage of each. Yellow blossom sweet clover in seed labeled "white blossom sweet clover."

Aug. 6, 1941—The importation of mixtures, in any combination, of seed of suckling clover (Trifolium dubium), white clover (Trifolium glomeratum), for planting is not detrimental to the use of such seeds.

Sept. 1940—Service tests on seeds in the Washington laboratory of the Agricultural Marketing Service has been discontinued because of the amount of routine testing and other activities required in the administration of the Federal Seed Act. The extent of serv-

testing in the Federal-State seed labora-es is to be determined by the officials of states in which the laboratories are tories is to

Unit

UNIT WEIGHTS FOR USE IN INTERSTATE COMMERCE

Weights PURITY	for	Veight for Noxious Weed ermination
	Agrostis spp., Poa spp., Rhodes grass, Bermuda grass	25 grams
2 grams	Timothy, orchard grass, fescues (except meadow fescue) alsike and white	
5 grams	clover, carrot, reed canary grass, Dallis grass Rye grass, meadow fescue, foxtail millet, alfalfa, red	50 grams
10 grams	clover, sweet clover, lespedeza	50 grams
	clover, Brassica spp., flax, Agropyron spp Proso, Sudan grass	50 grams 150 grams
100 grams	Sorghums, buckwheat, beet Vetches, cereals (except corn)	500 grams
500 grams	Corn, beans, peas, cow- peas, soybeans	500 grams

DISTRICT OF COLUMBIA

Federal Seed Act-Interstate Commerce 1939

INFORMATION REQUIRED ON ANALYSIS TAG.

(A) Agricultural seeds (unmixed). Every

Same requirements as under the Federal Seed NOXIOUS WEEDS. Act except for labeling:
Noxious weeds.
Give name and number per ounce.

(B) Mixtures of Agricultural Seeds. Every

Same requirements as under the Federal Seed Act except for labeling: Noxious weeds Give name and number per ounce.

(C) Vegetable Seeds. Every lot.

Same requirements as under the Federal Seed Act.

Bermuda grass-Cynodon dactylon Beindweed—Convolvulus arvensis Canada thistle—Cirsium arvense Quack grass—Agropyron repens Wild onion—Allium vineale

Wholesale SEED CORN **GROWERS**

Hand Picked . . . Germination 90 to 100% . . . Car Lots or Assorted Cars . . . Early and Late Field Corn. Hybrid Seed Corn.

also Several Varieties

SUGAR CORN FLINT AND **POPCORN**

> WRITE OR WIRE US

COUNCIL BLUFFS SEED COMPANY

COUNCIL BLUFFS IOWA

Idaho Grown Seeds

SHIPPERS AND GROWERS

- ALFALFA
- RED CLOVER
- ALSIKE
- SWEET CORN
- FIELD CORN
- ONION SEED
- LETTUCE SEED
- LADINO WHITE **CLOVER**

EDGAR L. OAKES & CO.

CALDWELL

IDAHO

UNIVERSAL

=== COMBINATION =

HULLER - SCARIFIER **CLEANER**



built especially for Seed Growers. Seed Houses. This machine will Hull, Scarify Clean, and Alfalfa, Sweet

Clover, Crotalaria, Lespedeza, Bermuda Seed, etc. Save your present losses which can now be avoided by owning one of these machines which will pay for itself many times each season.

> WRITE FOR DESCRIPTIVE LITERATURE AND PRICES

American Grain Separator Company

MINNEAPOLIS

MINNESOTA

This Year, More Than Ever **GROWERS NEED** PENETROL

An Activator and Spreader for nicotine sulphate, a sticker and spreader

THE ARSENATES THE SULPHATES **BORDEAUX MIXTURE GROUND DERRIS**

meets the urgent need for greater production by helping what Insecticides are available do a better job. Being made wholly of non-critical materials, PENETROL is available without restriction.

a companion product, is a complete, self-spreading nicotine insecticide.

Every up-to-date Seed Catalog should list PENETROL and NICOTROL. Send for leaflets and agency proposition.

Kay-FriesChemicals,Inc. 180 Madison Ave., Dept. B New York





CYANOGAS A-DUST DISPLAY CARTON

CYANOGAS* is calcium cyanide, B material which liberates hydrocyanic acid gas (HCN) on exposure to the natural moisture in the air. A fine powder CYANOGAS A-DUST is adapted to use with a duster for rodent control and for various other purposes in the field of insect and rodent control. CYANOGAS ANT-KILLER is specially packed for treating ant nests in lawns and gardens. CYANOGAS G-FUMIGANT is comparable to sea-sand in the size of the particles, flows and sifts freely and is dustless in application; it is used for fumigation.

FARMERS, RANCHERS, POULTRYMEN require CYANOGAS to kill destructive rodents such as RATS, MICE, WOODCHUCKS (GROUNDHOGS), MOLES, GROUNDSQUIRRELS, GOPHERS and PRAIRIE DOGS.

GARDENERS, HOME OWNERS use CYANOGAS ANT-KILLER to rid lawns and gardens of ants.

GREENHOUSES use CYANOGAS G-FUMIGANT throughout the year for the control of many kinds of insect pests.

FLOUR MILLS and GRAIN ELEVATORS fumigate to control insects to produce clean flour and to save grain from damage.

WAREHOUSES, including seedsmen, fumigate with CYANOGAS regularly to control both insect and rodent pests.

PEST CONTROL OPERATORS are large purchasers of CYANOGAS A-DUST for use in their rat control activities. HEALTH OFFICERS both endorse and use CYANOGAS for rat control in the U. S. A. and throughout the world.

FOR FURTHER INFORMATION WRITE AMERICAN CYANAMID & CHEMICAL CORPORATION A Unit of American Cyanamid Company Insecticide Department

30 Rockefeller Plaza, New York, N. Y. Kansas City, Mo. Azusa, Cal-*Reg. U. S. Patent Office



Corn Data

Charts, Tables and Miscellaneous Material to Growers, Processors and Retailers of Hybrid Corn. Material Supplied by Funk Bros. Seed Co.

Labor and Power Requirements

(Requirements in Hours Per Acre)

Operation & Machine Used	Source of Power	Man Labor	Horse Labor	Tractor Labor
Crop Residue Disposal Harrow, rake and burn Cut with 14 ft. disc	Row-crop tractor	.47		.38
harrow	Row-crop tractor	.23		.22
Primary Soil Prepara- cion: 2—16 in. plow 6" discrot. hoe 2—14 in. plow 6 ft. cover crop disc 11.5 ft. field cultivator 8 ft. disc harrow and	20 H.P. tractor 6 horses 20 H.P. tractor 20 H.P. tractor	.88 1.83 1.02 .50	10.57	.84 1.00 .50
10 ft. spike harrow	20 H.P. tractor	.86		.84
Secondary Soil Prepa- cation: 8' tandem disc harrow 10' spike-tooth barrow	20 H.P. tractor	.34		.33
14' single disc harrow 14' single disc harrow	Row-crop tractor 4 horses Row-crop tractor 4 horses	.22 1.15 .08 .25	4.42	.21
Planting: 4-row planter 2-row planter 2-row planter 2-row lister 2-row lister	20 H.P. tractor Row-crop tractor 2 horses 6 horses 15 H.P. tractor	.25 .55 .79 .95	1.55 5.80	.24
Cultivation: 21' spring-tooth weeder 21' rotary hoe 4-row cultivator 2-row cultivator 1-row cultivator	Row-crop tractor Row-crop tractor 20 H.P. tractor 15 H.P. tractor 4 horses 2 horses	.14 .16 .25 .44 .59 1.20	2.35 2.40	.12 .13 .24 .42
Harvesting: Hand husking 1-row picker 2-row picker Cutting with binder	2 horses 15 H.P. tractor 20 H.P. tractor 3 horses	5.50 1.75 1.33 1.5	11.	1.50
Cutting with field harvester Hauling to silo Filling silo	20 H.P. tractor 2 horses 20 H.P. tractor	1. 5. 5.	10.	1.

Hours are for one time over one acre with machine used. Harvest figures are based on average yields of 8 tons silage or 50 bushels ear corn per acre.

How to Determine Acreage of Corn in the Field

Determine the number of acres in a field or trial plot as follows:

If the dimensions are known or measured, multiply the length in rods times the width in rods to get the area in square rods. Divide this area in square rods by 160 (number sq. rods in an acre). The result is the number of acres or fraction of acres.

If the dimensions are not known, multiply the number of rows times the average width between rows (in feet) times the length of the plot (in feet) to get the area in square feet. Divide this area in square feet by 43,560 (number sq. ft. in an acre). The result is the number of acres or fraction of acres.

To harvest or plant an approximate acre of corn, cover the number 80 rod rows or their equivalent shown below:

Row Spacing	No. of Rows	Row Spacing No. of	Rows
3 ft.	111/4	3 ft., 4 in.	10
3 ft., 2 in.	101/2	3 ft., 6 in.	9 3/3

To lay out one acre of land four times as long as the width the length is 417 feet, 4 inches, and the width is 104 feet, 4 inches. Depth of one acre plots for the following frontage widths is:

Frontage	Depth	Frontage	Depth
20 feet	2187 feet	40 feet	1089 feet
25 feet	17421/2 feet	50 feet	8761/2 feet
33 feet	1320 feet	100 feet	4351/2 feet

Analysis and Feeding Value of Corn

Feedstuff	Percentage Composition by Weight							
	Mois- ture	Ash	Crude Protein	Ether Extract (fat)	Nitrogen Free Extract (carbohydrate)	Crude Fiber	Cal- cium	Phosphorus
Corn, Shelled	12.9	1.3	9.3	4.3	70.3	1.9	.01	.26
Corn (ear) Chop	10.7	$^{2.0}$	8.2	3.4	66.5	9.2		1
Corn Fodder (green, immature)	79.0	1.2	1.7	.5	12.0	5.6		
Corn Fodder (green, mature)	73.4	1.5	2.0	.9	15.5	6.7		
Corn Fodder (dried)	11.8	5.8	7.4	2.4	49.6	23.0		1
Corn Stover (dried)	10.7	6.1	5.7	1.5	45.7	30.3	.45	.10
Corn Silage (immature)	79.1	1.4	1.7	.8	11.0	6.0		1
Corn Silage (mature)	70.9	1.4	2.4	.9	17.5	6.9		
Corn Stover Silage	80.7	1.8	1.8	.6	9.5	5.6		

	Digestible Constituents, Percent by Weight							
	Digestible Protein				,	Total Digest	ible Nutrien	its
	Cattle	Sheep	Hogs	Poultry	Cattle	Sheep	Hogs	Poultry
Corn, Shelled Corn (ear) Chop Corn Fodder (dried) Corn Stover (dried) Corn Silage Corn Stover (silage)	5.2 4.8 3.4 2.5 1.1	7.5 5.7 2.1 1.1	7.2 6.2	7.9	78.3 68.6 54.4 53.4 17.5 10.4	73.9 75.6 49.8 17.4 10.1	80.0 70.2	80.0

U. S. Corn Production

Acreage and Percent Hybrid

STATE Iowa Illinois Indiana	Bushels Produced for Grain 1941 442,527,000 387,292,000 170,820,000	Acreage Planted 1941 9,114,000 7,645,000 3,934,000	Yield Per Acre 1941 51. 52.5 45.	Percent Acreage Planted in Hybrid 1941 95 87 80
Minnesota Nebraska Ohio Missouri Texas Kentucky	158,240,000 152,831,000 152,559,000 110,418,000 71,655,000 71,484,000	4,410,000 6,822,000 3,252,000 3,904,000 5,079,000 2,610,000	46. 24.5 49.5 29.5 15. 28.	64 32 74 45 2 12
Tennessee Kansas No. Carolina Mississippi Alabama Wisconsin Pennsylvania	68,034,000 53,204,000 50,930,000 50,541,000 50,298,000 47,027,000 42,538,000	2,730,000 2,624,000 2,368,000 3,093,000 3,305,000 2,250,000 1,282,000	25.5 23.5 22. 17. 15.5 41. 41.5	3 13 2 1 1 64 20
Georgia Arkansas So. Dakota Michigan Virginia Oklahoma Lousiana	40,824,000 39,995,000 39,460,000 39,105,000 31,070,000 30,012,000 21,765,000	4,000,000 2,148,000 3,018,000 1,509,000 1,267,000 1,850,000 1,548,000	10.5 19. 20. 33. 26. 17.5	1 6 19 42 5 2
So. Carolina Maryland No. Dakota Colorado West Virginia New York	21,694,000 14,144,000 12,875,000 12,050,000 11,811,000 6,480,000	1,653,000 $446,000$ $1,123,000$ $1,008,000$ $397,000$ $676,000$	13.5 34. 25. 16.9 31. 40.	1 25 6 5 12 16
Florida New Jersey Delaware New Mexico Idaho California Montana	5,805,000 5,248,000 3,870,000 3,080,000 1,840,000 1,470,000 1,418,000	732,000 181,000 133,000 215,000 53,000 79,000 182,000	9. 41. 30. 17.5 46. 35. 22.5	1 31 15 6 16 2
Wyoming Oregon Washington Arizona Connecticut Massachusetts	1,122,000 1,104,000 616,000 360,000 336,000 287,000	160,000 59,000 35,000 41,000 47,000 41,000	16.5 34.5 44. 12. 42. 41.	2 21 24 2 40 12
Utah Vermont Maine N. Hampshire Nevada Rhode Island	240,000 190,000 164,000 126,000 56,000 39,000	17,000 15,000 4,000	30. 38. 41. 42. 28. 39.	8 18 1 10 2 20

How to Compute Yields of Corn in the Field

Hill Planted Corn

Pick and weigh all corn from 25 consecutive hills in four representative locations. Multiply the weight of corn from these 100 hills by the correct factor in table below. Result is yield in bushels per acre, on 70-lb. per bu. basis, uncorrected for moisture and shelling percentage (see following pages).

Hill and Row Spacing	3′	3'2"	3'4"	3'6"
3 ft.	.69	.65	.62	.59
3 ft. 2 in.	.65	.62	.59	.56
3 ft. 4 in.	.62	.59	.56	.53
3 ft. 6 in.	59	.56	.53	.51

Drilled Corn

Take the weight of corn husked from the distance shown in the table below. Multiply by 100 and divide by 70. The result is yield in bushels per acre, 70 lb. basis (uncorrected for moisture, shelling %).

Row Spacing	Distance to Pick
3 ft., 6 in.	124 ft.
3 ft., 4 in.	131 ft.
3 ft., 2 in.	137 ft.
3 ft.	142 ft.

How to Compute Capacity of Cribs and Bins

Square or Rectangular Cribs—Multiply the length by the width by the depth of grain (all in feet). Multiply this sum by 2 and divide by 5. The result is the number bushels ear corn at 70 lbs. per bu. Correct for shelling percentage and moisture as directed on preceding pages.

Round Cribs—Multiply the diameter (distance across center) by the diameter. Multiply this sum by the depth (all in feet). Multiply the sum by .315. The result is bushels at 70 lbs. per bu. Correct for moisture and shelling percentages.

Piles of Corn—When heaped in form of a cone: Square the depth and square the inches of slant height (i.e. multiply each by itself). Subtract the lesser of these amounts from the greater. Multiply the difference obtained by the depth in inches. Multiply this product by .0024. The result is the bushels shelled corn at 70 lbs. bu. basis. Correct for moisture and shelling percentage. When corn is heaped against a straight wall divide this result by two.

The above formulas give bushels of 70 lb. basis ear corn. For shelled corn capacities in bushels double number bushels ear corn and correct for moisture content.

Seed Planting Requirements

Table shows acres planted per bushel seed at 3 kernels per hill rate. At 2 kernels amount is $\frac{2}{3}$ quantity shown. At 2 and 3 kernels amount is $\frac{5}{6}$ quantity shown. At 4 kernels add $\frac{1}{3}$ to quantity shown.

Check planted Row & Hill Spacing	Large Flat	Reg. Flat	Med. Small Flat	Large Round	Reg. Round	Med. Small Round
3'x3'	5.0	5.6	6.5	4.5	5.3	5.8
3'x3'2"	5.2	5.8	6.7	4.8	5.5	6.0
3'x3'4"	5.4	6.1	7.0	5.0	5.7	6.3
3'x3'6"	5.7	6.3	7.3	5.1	5.8	6.5
3'2"x3'2"	5.9	6.5	7.5	5.3	6.0	6.7
3'2"x3'4"	6.1	6.7	7.8	5.5	6.2	6.5
3'2"x3'6"	6.3	6.9	8.0	5.7	6.4	7.1
3'4"x3'4"	6.5	7.1	8.3	5.9	6.6	7.4
3'4"x3'6"	6.7	7.4	8.6	6.0	6.7	6.6
3'6"x3'6"	6.9	7.6	8.9	6.2	6.9	7.8

Drilled	Based on 12-inch spacing of kernels in hill. For 6-
	inch spacing allow ½ of acres shown; for 8-inch ½, for 18-inch spacing 1½, etc.

3′	5.0	5.6	6.5	4.5	5.3	5.8
3′2″	5.5	6.2	7.3	4.9	5.7	6.3
3′4″	6.0	6.8	8.0	5.3	6.1	6.9
3'6"	6.5	7.3	8.8	5.8	6.5	7.5

Note: Planting rates based on average kernel sizes in each grade. Seed in the same grade, while uniform, may vary up to 10% in planting coverage according to screen sizes which are dependent upon size of kernels in any crop year.

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Olds Seed Co., L. L. Madison, Wis. Ouren Seed Co.

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Page Seed Co. Greene, N. Y. Peppard Seed Co. Kansas City, Mo. Philadelphia Seed Co.

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Schell, Inc., Walter S. Harrisburg, Pa. Scott & Sons, Co., O. M.

Marysville, Ohio Seaboard Seed Co.

Philadelphia, Pa. Sexauer & Son, Geo. P. Brookings, S. Dak. Shuler & Smoak

Orangeburg, S. Car.

Shultz Seed Co. Olney, Ill.

Stanford Seed Co. Buffalo, N. Y. Steele, Briggs Seed Co., Ltd. Toronto, Canada Stoller's Seed House Paulding, Ohio Twin City Seed Co. Minneapolis, Minn. Vaughan's Seed Store Chicago, Ill. Wood & Sons, T. W. Richmond, Va. Woodruff & Sons, Inc., F. H. Milford, Conn. Woodruff & Sons, Inc., S. D. Orange, Conn.

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McCabe Bros. Grain Co., Ltd. Winnipeg, Man., Canada McCullough Seed Co., The J. Chas. Cincinnati, Ohio Mixson Seed Co., W. H. Charleston, S. C.

Olds Seed Co., L. L. Madison, Wis. Philadelphia Seed Co. Philadelphia, Pa. Portland Seed Co.

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Rocky Ford, Colo.
Colorado Seed Co.
Denver, Colo.

Condon Bros. Seedsmen Rockford, Ill. Germain Seed & Plant Co. Los Angeles, Calif.

Herbst Brothers

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Lagomarsino & Sons, F.
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Radwaner Seed Co., Inc., I. L. New York, N. Y.

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Schell, Inc., Walter S. Harrisburg, Pa.

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Cincinnati, Ohio Page Seed Co., The Greene, N. Y.

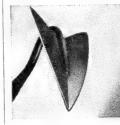
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Ionia, Mich.
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Niles, Mich.
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Schell, Inc., Walter S.
Harrisburg, Pa.

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Hamilton Seed & Coal Co.
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Kelley & Co., Walter T.
Paducah, Ky.
Leaby Mfg. Co.

Kelley & Co., Walter T.
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Leahy Mfg. Co.
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New York, N. Y.
Spratt's Patent, Ltd.
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Grand River Pet Supply Co.
Detroit, Mich.
Hendryx Co., Andrew B.
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National Pet Shops
St. Louis, Mo.
Schell, Inc., Walter S.
Harrisburg, Pa.
Schoemann & Mayer, Inc.
New York, N. Y.

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Resale Merchandise

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California Spray Chemical Corp.
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Mt. Airy, Cincinnati, Ohio
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National Pet Shops
St. Louis, Mo.
Schoemann & Mayer, Inc.
New York, N. Y.
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Chicago, Ill.
Tricker, Inc., Wm.
Independence, Ohio
Universal Crushed Shell Co.
Muscatine, Iowa

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Leonard & Son, A. M.
Piqua, Ohio
Vaughan's Seed Store
Chicago, Ill.

BAIT—CUT WORM Goulard & Olena, Inc. New York, N. Y.

Oshkosh, Wis.

BAIT—INSECT—WEEVIL Agricultural Laboratories, Inc. Columbus, Ohio

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Holmes Seed Co., The
Canton, Ohio
McCullough Seed Co., The J. Chas.
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McHutchison & Co.
New York, N. Y.
Schell, Inc., Walter S.
Harrisburg, Pa.
Vaughan's Seed Store
Chicago, Ill.
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Quincy, Ill.
Cyclone Mfg. Co.
Urbana, Ind.
Garden Industries
St. Louis, Mo.
Illinois Supply Co.
Aurora, Ill.
Poultry Aid Products Co. (Delousing)
Grand Rapids, Mich.

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Piqua, Ohio
McCullough Seed Co., The J. Chas.
Cincinnati, Ohio
Schell Inc., Walter S.
Harrisburg, Pa.
Thompson & Sons, O. E.
Ypsilanti, Mich.
Vaughan's Seed Store

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Dickinson Co., The Albert
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Duryea Seed Co., Inc.
New York, N. Y.
Ferry-Morse Seed Co.

Detroit, Mich., San Francisco, Calif Garden Products Co.

St. Louis, Mo.
Grand River Pet Supply Co.

Grand River Pet Supply Co.
Detroit, Mich.
Hinton & Co., Inc.
New York, N. Y.
Justrite Co., The
Milwaukee, Wis.
Loewith, Inc., Julius
New York, N. Y.
Mangelsdorf & Bro., Inc., Ed. F.

St. Louis, Mo.
McCullough Seed Co., The J. Chas.

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Prunty Seed & Grain Co.
St. Louis, Mo. Scarlett & Co., Wm. G. Baltimore, Md. Schell, Inc., Walter S.

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Spratt's Patent, Ltd.
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Duryea Seed Co., Inc.
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McCullough Seed Co., The J. Chas.

Cincinnati, Ohio Philadelphia Seed Co. Philadelphia, Pa.
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Philadelphia, Pa. BIRDS

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Van Nuys, Calif.
Geisler Bird Co., Max
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St. Louis, Mo.
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Robison, Ansel W. San Francisco, Calif.

Schell, Inc., Walter S. Harrisburg, Pa.

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Ken-L-Products Division
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Hamilton Seed & Coal Co.
Cedar Rapids, Iowa
Lippincott Co., J. B.
Philadelphia, Pa.

Little, Brown & Co. Boston, Mass.

McCullough Seed Co., The J. Chas. Cincinnati, Ohio

Macmillan Co., The New York, N. Y. New York, N. Y.
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McCullough Seed Co., The J. Chas. Cincinnati, Ohio

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Cincinnati, Ohio Metal Products Co. Fredericksburg, Va. Morton Pottery Co. Morton Fottery Co.
Morton, Ill.
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Container Corp. of America Chicago, Ill.

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Fricke Co., J. E. Philadelphia, Pa.

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Macomb, Ill.
National Ideal Co.
Toledo, Ohio
Oakes Mfg. Co.
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Poorman, John G. (Feather)
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Gabriel's Laboratories
Tell City, Ind.
Ken-L-Products Division
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McCullough Seed Co., The J. Chas.
Cincinnati, Ohio
Perfection Foods Co.
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Marquette, Mich.
McCullough Seed Co., The J. Chas.
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Hayes Hatcheries, S. W.
Centralia, Ill.
Illinois Hatchery
Metropolis, Ill.
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Mildred Bros. Hatcheries
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Miller Hatcheries, Inc.
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Jones, The Holly Wreath Man
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Michael-Leonard Co.
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Evergreen, Ala.
Platten's Christmas Trees, Inc.
Green Bay, Wis.
Quality Seed & Grain Co. (Mistletoe)
Chickasha, Okla.
Schell, Inc., Walter S.
Harrisburg, Pa.
South West Desert Nurseries
(Mistletoe)
Las Cruces, N. Mex.
Vaughan's Seed Store
Chicago, Ill.

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McCullough Seed Co., The J. Chas.
Cincinnati, Ohio Michael-Leonard Co. Sioux City, Iowa Schell, Inc., Walter S. Harrisburg, Pa.

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Perfection Foods Co.
Battle Creek, Mich.
Premier Peat Moss Corp.
New York, N. Y.
Squibb & Sons, E. R.
New York, N. Y.
Wood & Sons, T. W.
Richmond, Va.

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Merck & Co., Inc.
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Hollywood, Calif.

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Mallinckrodt Chemical Works
St. Louis, Mo.
Merck & Co., Inc.
Rahway, N. J.
Protex Industries, Inc.
New York, N. Y.
Rohm & Haas Co.
Philadelphia, Pa.
Shur-Gro. Co. Philadelphia, Pa.
Shur-Gro. Co.
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Leonard & Son, A. M. Piqua, Ohio McCullough Seed Co., The J. Chas. Cincinnati, Ohio

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Geyer Mfg. Co.
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Port Washington, Wis.
Gravely Motor Plow & Cultivator Co.
Dunbar, W. Va.
Hamilton Seed & Coal Co.
Cedar Rapids, Iowa
Hudson Mfg. Co., H. D.
Chicago, Ill.
Leonard & Son, A. M.
Piqua, Ohio

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McCullough Seed Co., The J. Chas.
Cincinnati, Ohio
Norcross & Sons, C. S.
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Pioneer Mfg. Co.
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Schell, Inc., Walter S.
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Myers & Bro. Co., The F. E. Ashland, Ohio

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Creamery Package Mfg. Co.
New York, N. Y.
Duggar Mfg. Co., L. G.
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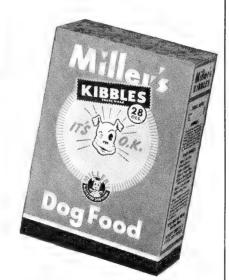
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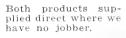
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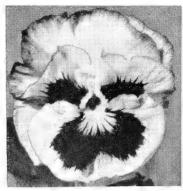
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Protex Industries, Inc. New York, N. Y.

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Bartlett Mfg. Co.
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Piqua, Ohio
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Roberton Mfg. Co.
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Oakville, Conn.
Vaughan Seed Store
Chicago III

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Bartlett Mfg. Co.
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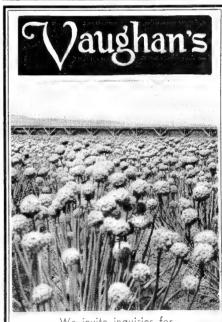
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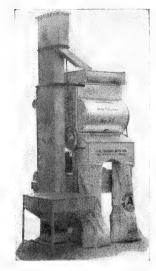
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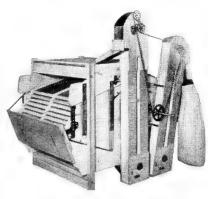
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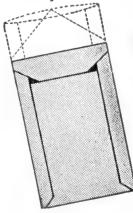
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Minneapolis, Minn. Ferrell & Co., A. T.
Saginaw, Mich.
Hance Mfg. Co., J. W.
Westerville, Ohio Howes Co., Inc., S. Silver Creek, N. Y. Lewis Seed Co. Lewis Seed Co.
Louisville, Ky.
Rice Seed Co., W. A.
Jerseyville, Ill,
Sidney Grain Machinery Co.
Sidney, Ohio

FARM IMPLEMENTS

Allen & Co., Inc., S. L.
Philadelphia, Pa.
American Grain Separator Co.
Minneapolis, Minn. Ariens Co. Brillion, Wis. Case Co., J. I.
Racine, Wis.
Hance Mfg. Co., J. W.
Westerville, Ohio

FIELD WAREHOUSING

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FINANCING

Banks Warehouses (Inc.) Wm. H. Chicago, Ill. Douglas-Guardian Warehouse Corp. Chicago, Ill.

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(See Fumigants Under Resale Merchandise)

GERMINATORS

Bridges Mfg. Co. Bedford, Iowa Herbst Bros. New York, N. Y. Seedburo Equipment Co. Chicago, III.
Specialty Mfg. Co.
St. Paul, Minn.
Standard Scientific Supply Corp.
New York, N. Y.

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Ferrell & Co., A. T.
Saginaw, W. S., Mich.
Hance Mfg. Co., J. W.
Westerville, Ohio Hart-Carter Co. Minneapolis, Minn. Howes Co., Inc., S. Silver Creek, N. Y. Oliver Mfg. Co. St. Louis, Mo. Sutton Steele & Steele, Inc. Dallas, Texas

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Auto Compressor Co. Wilmington, Ohio Wilmington, Onto
Cleland Mfg. Co.
Minneapolis, Minn.
Ferrell & Co., A. T.
Saginaw, W. S., Mich.
Hamilton Seed & Coal Co.
Cedar Rapids, Iowa
Hance Mfg. Co., J. W.
Westerville, Ohio
Hort Carter Co. Hart-Carter Co. Minneapolis, Minn. Hogmoe Mfg. Co.
Minneapolis, Minn. Howes Co., Inc., S. Silver Creek, N. Y.

Majestic Huller & Mfg. Co. Minneapolis, Minn. Oliver Mfg. Co. St. Louis, Mo. Superior Separator Co. Minneapolis, Minn. Sutton Steele & Steele, Inc. Dallas, Texas

GRAIN MILLS

Ferrell & Co., A. T. Saginaw, Mich. Hart-Carter Co. Minneapolis, Minn. Howes Co., Inc., S. Silver Creek, N. Y. Oliver Mfg. Co. St. Louis, Mo. Superior Separator Co. Minneapolis, Minn.

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Westerville, Ohio Westervine, Onto Howes Co., Inc., S. Silver Creek, N. Y. Oliver Mfg. Co. St. Louis, Mo. Seedburo Equipment Co. Chicago, Ill.

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HAMMER MILLS

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Racine, Wis.
Sedberry, Inc., J. B.
Franklin, Tenn.

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Morse Co., A. B.
St. Joseph, Mich.

HORTICULTURAL COLOUR CHART

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McFarland Organizations Harrisburg, Pa.
Morse Co., A. B.
St. Joseph, Mich. Schmidt Lithograph Co. San Francisco, Calif. Sweeney, Straub & Dimm Portland, Ore.

HULLERS

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Minneapolis, Minn.
Howes Co., Inc., S.
Silver Creek, N. Y.
Majestic Huller & Mfg. Co.
Minneapolis, Minn.
Superior Separator Co.
Minneapolis, Minn.

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Morse Co., A. B. St. Joseph, Mich. Schmidt Lithograph Co. San Francisco, Calif. Stecher-Traung Litho. Corp. Rochester, N. Y.

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Silver Creek, N. Y.
Seedburo Equipment Co. Chicago, Ill.
Specialty Mfg. Co.
St. Paul, Minn.
Standard Scientific Supply Co. New York, N. Y.

Straub Co. Philadelphia, Pa. Torsion Balance Co. New York, N. Y. Troemner, Henry Philadelphia, Pa.

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Bemis Bro. Bag Co.

St. Louis, Mo.

Brown Bag Filling Machine Co. Fitchburg, Mass. Disbrow Mfg. Co. Newark, N. J. Outlook Envelope Co. Chicago, Ill.

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Huntley Mfg. Co.
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Clifton, N. J.

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Disbrow Mfg. Co.
Newark, N. J.
Fulton Bag & Cotton Mills
Atlanta, Ga.

SAMPLE CASES

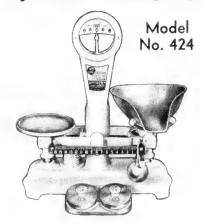
Hamilton Mfg. Co. Two Rivers, Wis. Heller & Co. Montpelier, Ohio
Knickerbocker Case Co.
Chicago, Ill.
Seedburo Equipment Co.
Chicago, Ill.

SAMPLE ENVELOPES—SEED

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Bemis Bro. Bag Co.
St. Louis, Mo. Berkowitz Envelope Co. Kansas City, Mo. Brown Bag Filling Machine Co. Fitchburg, Mass. Cupples-Hesse Corp.

St. Louis, Mo. Disbrow Mfg. Co., Inc. Newark, N. J.

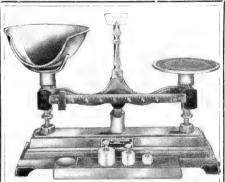
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Howes Co., Inc., S.
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Torsion Balance Co. New York, N. Y. Troemner, Henry Philadelphia, Pa.

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Saginaw, Mich.
Howes Co., Inc., S.
Silver Creek, N. Y.
Majestic Huller & Mfg. Co.
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Savage Co., W. J.
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Troemner, Henry
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Saginaw, Mich.
Hance Mfg. Co., J. W.
Westerville, Ohio Westerville, Ohio
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Huntley Mfg. Co.
Brocton, N. Y.
Oliver Mfg. Co. (Anti-Gravity)
St. Louis, Mo. Seedburo Equipment Co. Chicago, Ill. Sutton, Steele & Steele, Inc. Dallas, Texas

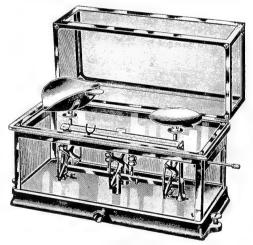
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Brooklyn, N. Y.
Bates Valve Bag Corp. (Wire Tie)
New York, N. Y.
Brooks Co., E. J.
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Hance Mfg. Co., J. W.
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Hart-Carter Co.
Minneapolis, Minn.

Howes Co., Inc., S.
Silver Creek, N. Y.
Oliver Mfg. Co.
St. Louis, Mo.

Rice Seed Co., W. A.

Jerseyville, Ill.

Sidney Grain & Machinery Co.

Sidney, Ohio Superior Separator Co. Minneapolis, Minn. Sutton, Steele & Steele, Inc.

Dallas, Texas SEED SIEVES

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Saginaw, Mich.
Hance Mfg. Co., J. W.
Westerville, Ohio
Howes Co., Inc., S.
Silver Creek, N. Y.

Seedburo Equipment Co. Chicago, Ill.

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New York, N. Y. Standard Reference Laboratory

Ames, Iowa
Montgomery Seed Laboratory
Montgomery Ala

Montgomery, Ala. National Seed Laboratory Toledo, Ohio

Ransom Seed Laboratory Los Angeles, Calif.

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Howes Co., Inc., S.
Silver Creek, N. Y.
Seedburo Equipment Co.
Chicago, Ill.

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Co.
Fargo, N. Dak.
Hance Mfg. Co., J. W.
Westerville, Ohio

Oliver Mfg. Co. St. Louis, Mo. Seedburo Equipment Co. Chicago, Ill.

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Wilmington, Dela.
Hance Mfg. Co., J. W.
Westerville, Ohio
Oliver Mfg. Co.
St. Louis, Mo.

Seedburo Equipment Co. Chicago, Ill.

SEED TRIERS Seedburo Equipment Co.

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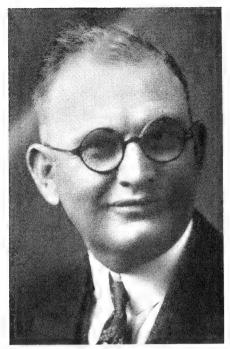
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Chicago, Ill.
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Disbrow Mfg. Co.
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Morse Co., A. B.
St. Joseph, Mich.

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Fulton Bag & Cotton Mills Atlanta, Ga.

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St. Paul, Minn.

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(Seedsmen should remember that the tolerances are not for the purpose of permitting labeling to show higher quality than is actually found by test. The tolerances are provided to take care of the unavoidable variation in the results of tests and difficulty in bringing seed to uniform quality. It would be the part of wisdom to label the seed as indicated by test and certainly not to show higher quality than is indicated by test. There are numerous indications that seedsmen are applying the tolerance to the results of tests when labeling seed for shipment in interstate commerce. This is certain to lead to difficulty. The seedsman will need the protection of the tolerance if he labels the seed on the basis of the results of a test. If the tolerance is applied prior to labeling the seed, the seedsman in effect deprives himself of the protection of the tolerance.)

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Value %	.00	.10	.20	.30	.40	.50	.60	.70	.80	.90	Value %
100 99 98 97 96	.60 .79 .99 1.18 1.36	.77 .97 1.16 1.34	.75 .95 1.14 1.33	.73 .93 1.12 1.31	.71 .91 1.10 1.29	.69 .89 1.08 1.27	.67 .87 1.06 1.25	.65 .85 1.05 1.23	.63 .83 1.04 1.21	.61 .81 1.01 1.20	100 99 98 97 96
95	1.55	1.52	1.50	1.48	1.46	1.45	1.44	1.42	1.40	1.38	95
94	1.72	1.71	1.69	1.67	1.65	1.63	1.62	1.60	1.58	1.56	94
93	1.90	1.88	1.86	1.85	1.83	1.81	1.79	1.78	1.76	1.74	93
92	2.07	2.05	2.03	2.02	2.00	1.98	1.96	1.95	1.93	1.91	92
91	2.23	2.22	2.20	2.18	2.17	2.15	2.13	2.12	2.10	2.08	91
90	2.40	2.38	2.36	2.35	2,33	2.31	2.30	2.28	2.27	2.25	90
89	2.55	2.54	2.52	2.51	2,49	2.47	2.46	2.44	2.43	2.41	89
88	2.71	2.67	2.68	2.66	2,65	2.63	2.62	2.60	2.58	2.57	88
87	2.86	2.84	2.83	2.81	2,80	2.78	2.77	2.75	2.74	2.72	87
8 6	3.00	2.99	2.97	2.96	2,95	2.92	2.92	2.90	2.89	2.87	86
85	3.15	3.13	3.12	3.10	3.09	3.07	3.06	3.05	3.03	3.02	85
84	3.28	3.27	3.26	3.24	3.23	3.21	3.20	3.19	3.17	3.16	84
83	3.42	3.40	3.39	3.38	3.36	3.35	3.34	3.32	3.31	3.30	83
82	3.55	3.53	3.52	3.51	3.50	3.48	3.47	3.46	3.44	3.43	82
81	3.67	3.66	3.65	3.64	3.62	3. 61	3.60	3.59	3.57	3.56	81
80	3.80	3.78	3.77	3.76	3.75	3.73	3.72	3.71	3.70	3.68	80
79	3.91	3.90	3.89	3.88	3.87	3.85	3.84	3.83	3.82	3.81	79
78	4.03	4.02	4.00	3.99	3.98	3.97	3.96	3.95	3.94	3.92	78
77	4.14	4.13	4.12	4.10	4.09	4.08	4.07	4.06	4.05	4.04	77
76	4.24	4.23	4.22	4.21	4.20	4.19	4.18	4.17	4.16	4.15	76
75	4.35	4.33	4.32	4.31	4.30	4.29	4.28	4.27	4.26	4.25	75
74	4.44	4.43	4.42	4.41	4.40	4.39	4.38	4.37	4.36	4.35	74
73	4.54	4.53	4.52	4.51	4.50	4.49	4.48	4.47	4.46	4.45	73
72	4.63	4.62	4.61	4.60	4.59	4.58	4.57	4.56	4.56	4.55	72
71	4.71	4.70	4.70	4.69	4.68	4.67	4.66	4.65	4.64	4.64	71
70	4.80	4.79	4.78	4.77	4.76	4.75	4.75	4.74	4.73	4.72	70
69	4.87	4.87	4.86	4.85	4.84	4.83	4.83	4.82	4.81	4.80	69
68	4.95	4.94	4.93	4.93	4.92	4.91	4.90	4.90	4.89	4.88	68
67	5.02	5.01	5.00	5.00	4.99	4.98	4.98	4.97	4.96	4.95	67
66	5.08	5.08	5.07	5.06	5.06	5.05	5.04	5.04	5.03	5.02	66
65	5.15	5.14	5.13	5.13	5.12	5.11	5.11	5.10	5.10	5.09	65
64	5.20	5.20	5.19	5.19	5.18	5.17	5.17	5.16	5.16	5.15	64
63	5.26	5.25	5.25	5.24	5.24	5.23	5.23	5.22	5.21	5.21	63
62	5.31	5.30	5.30	5.29	5.29	5.28	5.28	5.27	5.27	5.26	62
61	5.35	5.35	5.34	5.34	5.34	5.33	5.33	5.32	5.32	5.31	61
60	5.40	5.39	5.39	5.38	5.38	5.37	5.37	5.37	5.36	5.36	60
59	5.43	5.43	5.43	5.42	5.42	5.41	5.41	5.41	5.40	5.40	59
58	5.47	5.46	5.46	5.46	5.45	5.45	5.45	5.44	5.44	5.44	58
57	5.50	5.49	5.49	5.49	5.49	5.48	5.48	5.48	5.47	5.47	57
56	5.52	5.52	5.52	5.52	5.51	5.51	5.51	5.51	5.50	5.50	56
55	5.55	5.54	5.54	5.54	5.54	5.53	5.53	5.53	5.53	5.53	55
54	5.56	5.56	5.56	5.56	5.56	5.55	5.55	5.55	5.55	5.55	54
53	5.58	5.58	5.57	5.57	5.57	5.57	5.57	5.57	5.57	5.56	53
52	5.59	5.59	5.59	5.58	5.58	5.58	5.58	5.58	5.58	5.58	52
51	5.59	5.59	5.59	5.59	5.59	5.59	5.59	5.59	5.59	5.59	51
50	5.60	5.59	5.59	5.59	5.59	5.59	5.59	5.59	5.59	5.59	50

The tolerance for pure seed on purity less than 50% is the same as the tolerance for the larger part of the difference between the purity and 100%.

Example: If the purity test is 96.40% use the table in this manner: Find 96 in the "Value" column, then the .40 at top of table. These two intersect at 1.29. Therefore the tolerance allowed would be 1.29%.

TABLE OF TOLERANCE FOR WEED SEEDS, OTHER CROP SEED, AND INERT MATTER FOR OTHER THAN CERTAIN CHAFFY GRASSES

Value %	.00	.10	.20	.30	.40	.50	.60	.70	.80	.90	Value %
0	.20	.21	.23	.25	.27	.29	.31	.33	.35	.37	0
1	.39	.41	.43	.45	.47	.49	.51	.53	.55	.57	1
2	.59	.61	.63	.65	.66	.68	.70	.72	.74	.76	2
3	.78	.80	.81	.83	.85	.87	.89	.91	.93	.94	3
4	.96	.98	1.00	1.02	1.04	1.05	1.06	1.08	1.10	1.12	4
5	1.15	1.16	1.18	1.20	1.22	1.23	1.25	1.27	1.29	1.31	5
6	1.32	1.34	1.36	1.38	1.39	1.41	1.43	1.45	1.46	1.48	6
7	1.50	1.51	1.53	1.55	1.56	1.58	1.60	1.62	1.63	1.65	7
8	1.67	1.68	1.70	1.72	1.73	1.75	1.77	1.78	1.80	1.82	8
9	1.83	1.85	1.87	1.88	1.90	1.91	1.93	1.95	1.96	1.98	9
10	2.00	2.01	2.03	2.04	2.06	2.07	2.09	2.11	2.12	2.14	10
11	2.15	2.17	2.18	2.20	2.22	2.23	2.25	2.26	2.28	2.29	11
12	2.31	2.32	2.34	2.35	2.37	2.38	2.40	2.41	2.43	2.44	12
13	2.46	2.47	2.49	2.50	2.52	2.53	2.55	2.56	2.57	2.59	13
14	2.60	2.62	2.63	2.65	2.66	2.67	2.69	2.70	2.72	2.73	14
15	2.75	2.76	2.77	2.79	2.80	2.81	2.83	2.84	2.86	2.87	15
16	2.88	2.90	2.91	2.92	2.94	2.95	2.96	2.98	2.89	3.00	16
17	3.02	3.03	3.04	3.06	3.07	3.08	3.10	3.11	3.12	3.13	17
18	3.15	3.16	3.17	3.19	3.20	3.21	3.22	3.24	3.25	3.26	18
19	3.27	3.28	3.30	3.31	3.32	3.33	3.35	3.36	3.37	3.38	19
20	3.40	3.41	3.42	3.43	3.44	3.45	3.47	3.48	3.49	3.50	20
21	3.51	3.52	3.54	3.55	3.56	3.57	3.58	3.59	3.60	3.62	21
22	3.63	3.64	3.65	3.66	3.67	3.68	3.69	3.70	3.72	3.73	22
23	3.74	3.75	3.76	3.77	3.78	3.79	3.80	3.81	3.82	3.83	23
24	3.84	3.85	3.86	3.87	3.88	3.89	3.90	3.91	3.92	3.93	24
25	3.95	3.95	3.96	3.97	3.98	3.99	4.00	4.01	4.02	4.03	25
26	4.04	4.05	4.06	4.07	4.08	4.09	4.10	4.11	4.12	4.13	26
27	4.14	4.15	4.16	4.16	4.17	4.18	4.19	4.20	4.21	4.22	27
28	4.23	4.24	4.24	4.25	4.26	4.27	4.28	4.29	4.30	4.30	28
29	4.31	4.32	4.33	4.34	4.35	4.35	4.36	4.37	4.38	4.39	29
30	4.40	4.40	4.41	4.42	4.43	4.43	4.44	4.45	4.46	4.47	30
31	4.47	4.48	4.49	4.50	4.50	4.51	4.52	4.53	4.53	4.54	31
32	4.55	4.55	4.56	4.57	4.58	4.58	4.59	4.60	4.60	4.61	32
33	4.62	4.62	4.63	4.64	4.64	4.65	4.66	4.66	4.67	4.68	33
34	4.68	4.69	4.70	4.70	4.71	4.71	4.72	4.73	4.73	4.74	34
35	4.75	4.75	4.76	4.76	4.77	4.77	4.78	4.79	4.79	4.80	35
36	4.80	4.81	4.81	4.82	4.83	4.83	4.84	4.84	4.85	4.85	36
37	4.86	4.86	4.87	4.87	4.88	4.88	4.89	4.89	4.90	4.90	37
38	4.91	4.91	4.92	4.92	4.93	4.93	4.94	4.94	4.94	4.95	38
39	4.95	4.96	4.96	4.97	4.97	4.97	4.98	4.98	4.99	4.99	39
40	5.00	5.00	5.00	5.00	5.01	5.01	5.02	5.02	5.03	5.03	40

Example—If the sample tested shows 4.40% of weed seeds, other crop seeds and inert matter, the tolerance is computed as follows: Find 4 in the "value" column, then .40 at top of table. These two intersect at 1.04; hence the tolerance is 1.04%.

Table of Tolerance for Inert Matter, Weed Seed, and Crop Seed for the following: Poa spp., Argostis spp. Festuca spp., bromegrass, crested wheatgrass, orchard grass, velvet grass, tall oatgrass, meadow foxtail, sweet vernalgrass, Rhodes grass, Dallis grass, carpet grass and Bermuda grass, and mixtures containing these seeds singly or combined in excess of 50%

Value %	.00	.10	.20	.30	.40	.50	.60	.70	.80	.90	Value %
0 1 2 3 4	.20 .39 .60 .80	.21 .41 .62 .82 1.02	.23 .43 .64 .83 1.04	.25 .45 .66 .85 1.06	.27 .47 .67 .87 1.08	.29 .49 .69 .90 1.09	.31 .51 .71 .92 1.10	.33 .53 .73 .94 1.13	.35 .55 .76 .96 1.15	.37 .58 .78 .97 1.17	0 1 2 3 4
5	1.20	1.21	1.24	1.26	1.28	1.29	1.31	1.33	1.35	1.37	5
6	1.39	1.42	1.44	1.46	1.47	1.50	1.52	1.54	1.55	1.58	6
7	1.60	1.61	1.64	1.66	1.67	1.69	1.72	1.74	1.75	1.78	7
8	1.80	1.81	1.83	1.86	1.87	1.89	1.92	1.93	1.95	1.98	8
9	1.99	2.01	2.04	2.06	2.07	2.09	2.11	2.13	2.15	2.17	9
10	2.20	2.21	2.23	2.25	2.27	2.28	2.31	2.33	2.34	2.37	10
11	2.38	2.41	2.42	2.44	2.47	2.48	2.51	2.52	2.54	2.56	11
12	2.58	2.60	2.62	2.63	2.66	2.67	2.70	2.71	2.74	2.75	12
13	2.77	2.79	2.81	2.83	2.85	2.87	2.89	2.91	2.92	2.95	13
14	2.96	2.98	3.00	3.03	3.04	3.05	3.07	3.09	3.12	3.13	14
15	3.16	3.17	3.19	3.21	3.23	3.24	3.26	3.28	3.29	3.32	15

(Continued on next page)

(Continued	from	breceding	bage)

Value %	.00	.10	.20	.30	.40	.50	.60	.70	.80	.90	Value %
16	3.34	3.36	3.38	3.39	3.42	3.43	3.45	3.47	3.49	3.50	16
17	3.53	3.54	3.56	3.58	3.60	3.61	3.64	3.66	3.67	3.69	17
18	3.71	3.73	3.74	3.77	3.78	3.80	3.81	3.84	3.86	3.87	18
19	3.89	3.90	3.93	3.94	3.96	3.97	4.00	4.02	4.03	4.05	19
20	4.08	4.09	4.11	4.12	4.14	4.15	4.18	4.20	4.21	4.23	20
21	4.24	4.26	4.29	4.30	4.32	4.33	4.35	4.36	4.38	4.41	21
22	4.42	4.44	4.46	4.47	4.49	4.50	4.52	4.53	4.56	4.58	22
23	4.60	4.61	4.63	4.64	4.66	4.68	4.69	4.71	4.72	4.74	23
24	4.76	4.77	4.79	4.81	4.82	4.84	4.85	4.87	4.89	4.90	24
25	4.93	4.94	4.95	4.97	4.99	5.00	5.02	5.04	5.05	5.07	25
26	5.09	5.10	5.12	5.14	5.15	5.17	5.19	5.20	5.22	5.24	26
27	5.25	5.27	5.29	5.29	5.31	5.32	5.34	5.36	5.38	5.39	27
28	5.41	5.43	5.43	5.45	5.46	5.48	5.50	5.53	5.53	5.54	28
29	5.55	5.57	5.59	5.61	5.62	5.63	5.65	5.66	5.68	5.70	29
30	5.72	5.72	5.74	5.75	5.77	5.78	5.79	5.81	5.83	5.85	30
31	5.85	5.87	5.89	5.90	5.91	5.93	5.94	5.96	5.97	5.98	31
32	6.00	6.01	6.02	6.04	6.06	6.06	6.08	6.10	6.10	6.12	32
33	6.14	6.14	6.16	6.18	6.18	6.20	6.22	6.23	6.24	6.26	33
34	6.27	6.28	6.30	6.31	6.33	6.33	6.35	6.37	6.37	6.39	34
35	6.41	6.41	6.43	6.44	6.45	6.46	6.48	6.50	6.50	6.52	35
36	6.52	6.54	6.55	6.56	6.58	6.59	6.61	6.61	6.63	6.63	36
37	6.65	6.66	6.68	6.68	6.70	6.71	6.72	6.73	6.75	6.75	37
38	6.77	6.78	6.79	6.80	6.82	6.82	6.84	6.85	6.85	6.87	38
39	6.88	6.89	6.90	6.92	6.92	6.93	6.95	6.95	6.97	6.98	39
40	7.00	7.00	7.01	7.01	7.03	7.03	7.05	7.06	7.08	7.08	40

Example—If the sample tested shows 3.30% of weed seeds, other crop seeds and inert matter, the tolerance is computed as follows: Find 3 in the "value" column, then .30 at top of table. These two intersect at .85; hence the tolerance is .85%.

Table of Tolerance for Pure Seed Variations for the following: Poa spp., Agrostis spp., Festuca spp., bromegrass, crested wheatgrass, orchard grass, velvet grass, tall oatgrass, meadow foxtail, sweet vernalgrass, Rhodes grass, Dallis grass, carpet grass, and Bermuda grass, and mixtures containing these seeds singly or combined in excess of 50%

Value %	.00	.10	.20	.30	.40	.50	.60	.70	.80	.90	Value %
100 99 98 97 96 95	.60 .79 1.00 1.21 1.41 1.62	.77 .98 1.19 1.39 1.59	.75 .96 1.17 1.38 1.57	.73 .94 1.15 1.35 1.54	.71 .92 1.12 1.33 1.52	.69 .90 1.10 1.31 1.51	.67 .88 1.08 1.29 1.50	.65 .86 1.07 1.27 1.48	.63 .83 1.06 1.24 1.45	.61 .81 1.03 1.23 1.43	100 99 98 97 96 95
94	1.82	1.81	1.78	1.76	1.74	1.71	1.70	1.68	1.66	1.63	94
93	2.03	2.00	1.98	1.97	1.95	1.92	1.90	1.87	1.86	1.84	93
92	2.23	2.21	2.18	2.17	2.15	2.12	2.10	2.09	2.06	2.04	92
91	2.43	2.41	2.39	2.36	2.35	2.33	2.30	2.28	2.27	2.24	91
90	2.64	2.61	2.59	2.57	2.55	2.52	2.51	2.49	2.47	2.45	90
89	2.83	2.81	2.79	2.77	2.75	2.72	2.71	2.69	2.67	2.65	89
88	3.03	3.01	2.99	2.97	2.95	2.93	2.91	2.89	2.86	2.85	88
87	3.23	3.20	3.19	3.16	3.15	3.12	3.11	3.08	3.07	3.04	87
8 6	3.42	3.40	3.37	3.36	3.35	3.32	3.31	3.28	3.27	3.24	86
85	3.62	3.59	3.58	3.55	3.54	3.51	3.50	3.48	3.46	3.44	85
84	3.80	3.78	3.77	3.74	3.73	3.70	3.69	3.67	3.65	3.63	84
83	4.00	3.97	3.95	3.94	3.91	3.90	3.88	3.86	3.84	3.83	83
82	4.18	4.16	4.14	4.13	4.11	4.08	4.07	4.05	4.03	4.01	82
81	4.36	4.35	4.33	4.32	4.29	4.27	4.26	4.24	4.21	4.20	81
80	4.56	4.53	4.51	4.49	4.48	4.46	4.44	4.42	4.41	4.38	80
79	4.73	4.71	4.69	4.68	4.66	4.63	4.62	4.60	4.59	4.57	79
78	4.92	4.90	4.87	4.85	4.83	4.82	4.80	4.79	4.77	4.74	78
77	5.09	5.07	5.05	5.03	5.01	4.99	4.98	4. 9 6	4.94	4.93	77
76	5.25	5.24	5.22	5.20	5.19	5.17	5.15	5.14	5.12	5.10	76
75	5.43	5.40	5.39	5.37	5.35	5.34	5.32	5.30	5.29	5.27	75
74	5.59	5.57	5.56	5.54	5.52	5.50	5.49	5.4 7	5.45	5.44	74
73	5.76	5.84	5.73	5.71	5.69	5.67	5.66	5.64	5.63	5.61	73
72	5.92	5.90	5.89	5.87	5.85	5.83	5.82	5.80	5.80	5.78	72
71	6.07	6.05	6.05	6.03	6.01	6.00	5.98	5.96	5.94	5.94	71
70	6.24	6.22	6.20	6.18	6.16	6.15	6.14	6.12	6.11	6.09	70
69	6.37	6.37	6.35	6.33	6.32	6.30	6.29	6.28	6.26	6.24	69
68	6.53	6.51	6.49	6.49	6.47	6.45	6.43	6.43	6.41	6.39	68
67	6.67	6.65	6.64	6.63	6.61	6.59	6.59	6.57	6.55	6.53	67
66	6.80	6.80	6.78	6.76	6.76	6.74	6.72	6.71	6.71	6.68	66
65	6.95	6.93	6.91	6.91	6.89	6.87	6.86	6.84	6.84	6.82	65

Value %	.00	.10	.20	.30	.40	.50	.60	.70	.80	.90	Value %
64	7.07	7.06	7.04	7.04	7.02	7.00	7.00	6.98	6.97	6.95	64
63	7.20	7.18	7.18	7.16	7.15	7.13	7.13	7.11	7.09	7.09	63
62	7.32	7.30	7.30	7.28	7.27	7.26	7.25	7.23	7.23	7.21	62
61	7.43	7.43	7.41	7.40	7.40	7.38	7.36	7.35	7.35	7.33	61
60	7.56	7.54	7.53	7.51	7.51	7.49	7.48	7.48	7.46	7.45	60
59	7.65	7.65	7.64	7.62	7.62	7.60	7.59	7.59	7.57	7.56	59
58	7.76	7.74	7.74	7.73	7.71	7.71	7.70	7.68	7.68	7.67	58
57	7.86	7.84	7.83	7.83	7.82	7.80	7.80	7.79	7.77	7.77	57
56	7.94	7.94	7.93	7.93	7.91	7.90	7.90	7.89	7.87	7.87	56
55	8.04	8.02	8.02	8.01	8.01	7.99	7.98	7.97	7.97	7.96	55
54	8.11	8.11	8.10	8.10	8.09	8.07	8.06	8.06	8.05	8.05	54
53	8.20	8.19	8.17	8.17	8.16	8.16	8.15	8.14	8.14	8.12	53
52	8.27	8.26	8.26	8.24	8.23	8.23	8.23	8.21	8.21	8.20	52
51	8.32	8.32	8.31	8.31	8.30	8.30	8.29	8.28	8.28	8.27	51
50	8.40	8.37	8.37	8.36	8.36	8.35	8.35	8.34	8.34	8.33	50

Example. If the purity test is 91.40%, use the table in this manner: Find 91 in the "value" column, then the .40 at top of table. These two intersect at 2.35. Therefore the tolerance allowed would be 2.35%.

EXTENDED TOLERANCE TABLE FOR OCCURRENCE OF NOXIOUS WEED SEEDS

Number Found by Analysis	The Following Are Within the Tolerance	Number Found by Analysis	The Following Are Within the Tolerance	Number Found by Analysis	The Following Are Within the Tolerance	Number Found by Analysis	The Following Are Within the Tolerance	Number Found by Analysis	The Following Are Within the Tolerance	Number Found by Analysis	The F 1- lowing Are Within the Tolerance
2 4 6 8 9 11 12 13 14 16 17 18 20 21 22 23 24 25 27 28 29 30 32 33 34 42 43 44 45 46 49 50 51 55 56 57 58 58 60 61 63 64 65 66 66 66 66 66 66 66 66 66 66 66 66	0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 44 45 46 47 48 49 40 40 40 40 40 40 40 40 40 40 40 40 40	66 67 68 69 71 72 73 74 75 76 77 78 80 81 82 83 84 85 86 87 89 90 91 92 93 94 95 99 100 101 102 103 104 105 106 107 108 110 111 112 113 114 115 116 117 118 117 118 117	51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 77 77 78 80 81 82 83 84 88 89 90 91 92 93 94 95 96 97 97 98 99 99 99 99 99 99 99 99 99 99 99 99	122 123 124 125 126 127 128 129 130 132 133 134 135 136 137 138 139 140 141 142 144 145 146 147 148 149 150 151 152 153 154 150 161 162 163 164 165 166 167 169 170 171 172 173 174 175	101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 130 131 132 133 134 135 136 137 138 139 130 131 132 133 134 135 136 137 138 139 130 131 132 133 134 135 136 137 138 138 139 130 131 131 132 133 134 135 136 137 138 138 139 130 131 131 132 133 134 135 136 137 138 138 139 130 131 131 132 133 134 135 136 137 138 138 139 130 131 131 132 133 134 135 136 137 138 138 139 130 131 131 132 133 134 135 136 137 138 138 139 130 130 131 131 132 133 134 135 136 137 138 138 139 130 130 131 131 132 133 134 135 136 137 138 138 139 130 130 131 131 132 133 134 135 136 137 138 138 139 130 130 130 130 130 130 130 130 130 130	176 177 178 179 180 181 183 184 185 186 187 188 189 190 191 192 193 194 195 197 198 199 200 201 202 203 204 205 206 207 208 209 211 212 213 214 215 216 217 218 219 220 221 222 223 224 226 227 228 229	151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200	230 231 232 233 234 235 236 237 238 239 240 242 243 244 245 246 247 248 249 250 251 252 253 254 255 266 267 268 269 270 271 272 273 275 276 277 278 279 280 281 282	201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 234 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250	283 284 285 286 287 288 289 290 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 328 329 330 331 332 333 334 335	251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 290 291 292 293 294 295 296 297 298 299 290 291 292 293 294 295 296 297 297 298 299 290 291 292 293 294 295 296 297 297 298 299 290 291 292 293 294 295 296 297 297 298 299 290 291 292 293 294 295 296 297 297 298 299 290 291 292 293 294 295 296 297 297 298 299 290 291 292 293 294 295 296 297 297 298 299 290 291 292 293 294 295 296 297 297 298 299 290 291 292 293 294 295 296 297 297 298 298 299 290 290 291 292 293 294 295 296 297 297 298 298 299 290 291 292 293 294 295 296 297 297 297 297 297 297 297 297 297 297

Example—If the sample contains 50 noxious weed seeds the tolerance allowance is 37.

Classified List of Seeds

Classifications Showing Specialties of Advertisers in Seed Trade Buyers Guide

Addresses Are Shown on Pages 228-230

Flower

ANNUALS

ANNUALS
American Bulb Co.
Bodger Seeds, Ltd.
C. S. Brent Seed Co.
(Nasturtiums)
Buckman Denholm & Holden
Seed Co.
Robert Buist Company
W. Atlee Burpee Co.
Burrell Seeds, Inc.
Comstock Ferre & Co.
Condon Bros., Seedsmen
Corneli Seed Co.
Crosman Seed Corn.
Ferry-Morse Seed Co.
Hamilton Seed & Coal Co.
Hamilton Seed & Coal Co.
Herbst Brothers
Holmes Seed Co.
Landreth Seed Co.
D. Landreth Seed Co.
The Wm. Macdonald Seed Co.
J. Chas. McCullough Seed Co.
Charles R. Moore
John Mosbell Co.
The Nebraska Seed Co.
Rex D. Pearce
I. L. Radwaner Seed Co.
The Page Seed Co.
Stollers Seed House
U. S. Seed House
U. S. Seed House
U. S. Seed Co., Inc.
Walter S. Schell, Inc.
Stollers Seed House
U. S. Seed Co., Inc.
Vaughan's Seed Store
Walter-Franklin Seed Co.
T. W. Wood & Sons
F. H. Woodruff & Sons, Inc.

PERENNIALS

PERENNIALS

American Bulb Co.
Bodger Seeds, Ltd.
Buckman, Denholm & Holden
Seed Co.
Robert Buist Company
W. Atlee Burpee Co.
Burrell Seeds, Inc.
Condon Bros., Seedsmen
Comstock, Ferre & Co.
Cromall Seed Co.
Crosman Seed Corp.
Ferry-Morse Seed Co.
Hamilton Seed & Coal Co.
The Chas. C. Hart Seed Co.
Herbst Brothers
Holmes Seed Co.
F. Lagomarsino & Sons
D. Landreth Seed Co.
The Wm. Macdonald Seed Co.
The J. Chas. McCullough
Seed Co.
Charles R. Moore
John Mosbell Co.
The Nebraska Seed Co.
Rex D. Pearce
I. L. Radwaner Seed Co.
Rex D. Pearce
I. L. Radwaner Seed Co., Inc.
Waller S. Schell, Inc.
Stollers Seed House
Vaughan's Seed Store
U. S. Seed Co., Inc.
Waller-Franklin Seed Co.
T. W. Wood & Sons
SWEET PEAS

SWEET PEAS

SWEET PEAS

American Bulb Co.
Bodger Seeds, Ltd.
C. S. Brent Seed Co.
Buckman, Denholm & Holden
Seed Co.
Robert Buist Company
W. Atlee Burpee Co.
Burrell Seeds, Inc.
Comstock, Ferre & Co.
Condon Bros., Seedsmen
Corneli Seed Co.
Crosman Seed Corp.
Ferry-Morse Seed Co.
Hamilton Seed & Coal Co.
The Chas. C. Hart Seed Co.
Herbst Brothers
Kelly Seed Co.
F. Lagomarsino & Sons
D. Landreth Seed Co.
The Wm. Macdonald Seed Co.
Charles R. Moore
The Nebraska Seed Co.
Robt. Nicholson Seed Co.
The Page Seed Co.
Pieters-Wheeler Seed Co.
I. L. Radwaner Seed Co., Inc.

Waldo Rohnert Co.
Russell-Heckle Seed Co.
Walter S. Schell, Inc.
Sherwood Seed Co.
Standard Seed Farms Co.
Stollers Seed House
U. S. Seed Co., Inc.
Vaughan's Seed Store
Waller-Franklin Seed Co.
T. W. Wood & Sons
F. H. Woodruff & Sons, Inc.
NOVELTIES NOVELTIES

F. H. Woodruff & Sons, Inc.

NOVELTIES

American Bulb Co.
Bodger Seeds, Ltd.
Buckman, Denholm & Holden
Seed Co.
W. Atlee Burpee Co.
Burrell Seed, Inc.
Condon Bros., Seedsmen
Crosman Seed Corp.
Ferry-Morse Seed Co.
The Chas. C. Hart Seed Co.
Herbst Brothers
Kelly Seed Co.
F. Lagomarsino & Sons
D. Landreth Seed Co.
The Wm. Macdonald Seed Co.
J. Chas. McCullough Seed Co.
Charles R. Moore
The Nebraska Seed Co.
Robt. Nicholson Seed Co.
Robt. Nicholson Seed Co.
Rex D. Pearce
I. L. Radwaner Seed Co., Inc.
Walter S. Schell, Inc.
Stollers Seed House
U. S. Seed Co., Inc.
Vaughan's Seed Store
Waller-Franklin Seed Co.
T. W. Wood & Sons
TREE SEEDS
Bodger Seeds, Ltd.
Buckman, Denholm & Holden

Bodger Seeds, Ltd. Buckman, Denholm & Holden Seed Co.
Burrell Seeds, Inc.
Condon Bros., Seedsmen
Herbst Brothers
The Nebraska Seed Co.

Rex D. Pearce
I. L. Radwaner Seed Co., Inc.
Walter S. Schell, Inc.
Stollers Seed House
U. S. Seed Co., Inc.
WILD FLOWERS
Bodgers Seeds, Ltd.
Ferry-Morse Seed Co.
Herbst Brothers
Kelly Seed Co.
F. Lagomarsino & Sons
Chas. H. Lilly Co.
Wm. Macdonald Seed Co.
Nobt. Nicholson Seed Co.
Nothrup, King & Co., Mpls.
L. L. Olds Seed Co.
Vaughan's Seed Store
ZINNIAS
American Bulb Co.
Bodger Seed, Ltd.
Bowman Seed Store
ZINNIAS
American Bulb Co.
Bodger Seed, Ltd.
Bowman Seed Co.
Noth. Buist Co.
W. Atlee Burpee Co.
Burrell Seeds, Inc.
Comstock, Ferre & Co.
Corneli Seed Co.
Ferry-Morse Seed Co.
Hamilton Seed & Coal Co.
Chas. C. Hart Seed Co.
Herbst Brothers
Kelly Seed Co.
F. Lagomarsino & Sons
Chas. H. Lilly Co.
Wm. Macdonald Seed Co.
J. Chas. McCullough Seed Co.
John Mosbell Co.
Nothrup, King & Co., Mpls.
L. L. Olds Seed Co.
Page Seed Co.
I. L. Radwaner Seed Co., Inc.
Vaughan's Seed Store
Waller-Franklin Seed Co.
T. W. Wood & Sons

Twin City Seed Co.
Valker-Christensen Co.
Vaughan's Seed Store
Owen T. Watts
T. W. Wood & Sons
F. H. Woodruff & Sons, Inc.
Young & Conway
Yuma Co. Farmers Mktg.

Ausn.

AUSTRIAN WINTER

PEAS

The Belt Seed Co.
Blue Mt. Seed Growers Assn.
Condon Bros., Seedsmen
Corneli Seed Co.
International Seed, Inc.
Jenks-White Seed Co.
F. Lagomarsino & Sons
R. E. Lambert & Sons
The Chas. H. Lilly Co.
Julius Loewith, Inc.
Ed. F. Mangelsdorf & Bro.,
Inc.
Mark Means Co.
Charles R. Moore
Robt. Nicholson Seed Co.
Northrup, King & Co. (Bomberger Div.)
Northwestern Seed Growers,
Inc.
Bergmount Seed Co.

Inc.
Paramount Seed Co.
I. L. Radwaner Seed Co., Inc.
Russell-Heckle Seed Co.
Wm. G. Scarlett & Co.
F. F. Smith & Co., Inc.
Snelson Seed Co.
Transcontinental Seed, Inc.
T. W. Wood & Sons
BEGGARWEED—
ELORIDA

FLORIDA

BEGGARWEED—FLORIDA

D. H. Gilbert Seed Co., Inc. Grand Island Nurseries R. E. Lambert & Sons Simpson Nursery Co. T. W. Wood & Sons

BENT GRASS

Associated Seed Growers, Inc. The Barteldes Seed Co. The Bowman Seed Co. The Bowman Seed Co. The Bowman Seed Co. Cargill, Inc. Arthur R. Cone Corneli Seed Co. Craver-Dickinson Seed Co. The Albert Dickinson Co. J. L. Donley & Bro. Duryea Seed Co., Inc. Engbretson Seed Co. A. Ertag, Inc. Ferry-Morse Seed Co. Hamilton Seed & Coal Co. The Chas. C. Hart Seed Co. Holmes Seed Co. International Seed, Inc. Jenks-White Seed Co. Kelly Seed Co. Kelly Seed Co. Lewis & Clark Seed Co. Lewis & Clark Seed Co. Julius Loewith, Inc. Ed. F. Mangelsdorf & Bro., Inc.

Julius Loewith, Inc.
Ed. F. Mangelsdorf & Bro.,
Inc.
The J. Chas. McCullough Seed
Co.
Charles R. Moore
Robt. Nicholson Seed Co.
Northrup, King & Co. (Bomberger Div.)
L. L. Olds Seed Co.
Ouren Seed Co.
A. S. Paterson & Coy, Ltd.
The Philadelphia Seed Co.,
Inc. The Philadelphia Seed Co., Inc.
I. L. Radwaner Seed Co., Inc.
Rudy-Patrick Seed Co.
Wm. G. Scarlett & Co.
Walter S. Schell, Inc.
O. M. Scott & Sons Co.
The Stanford Seed Co.
Transcontinental Seed, Inc.
Twin City Seed Co.
Vaughan's Seed Store
T. W. Wood & Sons
F. H. Woodruff & Sons, Inc.
Wright, Stephenson & Coy,
Ltd.

BENT STOLONS
O. M. Scott & Sons Co.
Stollers Seed House
F. H. Woodruff & Sons, Inc.

BERMUDA GRASS
The Barteldes Seed Co.

Wholesale Field Seed

ALFALFA

ALFALFA
The Ackerman Co.
The Barteldes Seed Co.
Hijos de S. V. Bellotti
The Belt Seed Co.
Blue Mt. Seed Growers Assn.
N. Bonahoom Seed Co.
The Bowman Seed Co.
The Bowman Seed Co.
C. S. Brent Seed Co.
Robt. Buist Company
Capital Fuel, Feed & Seed Co.
Cargill, Inc.
Roscoe J. Carl & Son
Arthur R. Cone
Condon Bros., Seedsmen
Corneli Seed Co.
Dakota Improved Seed Co.
The Albert Dickinson Co.
Craver-Dickinson Seed Co.
Duryea Seed Co.
J. L. Donley & Bro.
Duryea Seed Co.
Juryea Seed Co.
Juryea Seed Co.
Funk Bros. Seed Co.
Globe Seed & Feed Co.
The Gooding Seed Co.
Griswold Seed & Co.
Holmes Seed Co.
Holmes Seed Co.
Holmes Seed Co.
Idaho Grimm Alfalfa Seed
Growers Assn., Inc.
International Seed, Inc.
International Seed, Inc.
Interstate Seed & Grain Co.
Jenks-White Seed Co.
Keller Seed Store
Kelly Seed Co.
H. C. King & Sons, Inc.
F. Lagomarsino & Sons
Lakin Seed Co.
D. Landreth Seed Co.
R. E. Lambert & Sons
Land O'Lakes Creameries,
Inc.
Law, Somner Pty., Ltd.
The Chas. H. Lilly Co.
Julius Loewith, Inc. The. Law, Somner Pty., Ltd. The Chas. H. Lilly Co. Julius Loewith, Inc.

Louisville Seed Co. Magill & Co. Ed. F. Mangelsdorf & Bro., Magill & Co.
Ed. F. Mangelsdorf & Bro.,
Inc.
H. J. Mayer
McCabe Bros. Grain Co., Ltd
The J. Chas. McCullough Seed
Co.
Michael-Leonard Co.
Montana Seed Co.
Charles R. Moore
National Seed Co.
The Nebraska Seed Co.
Newday Seeds, Inc.
Robt. Nicholson Seed Co.
Northern Canadian Seed
Sales Northern Canadian Seed Sales Northern Field Seed Co. Northrup, King & Co. Northrup, King & Co. (Bom-berger Div.) Northwestern Seed Co., Inc. Northwestern Seed Growers, Inc. L. Olds Seed Co. L. L. Olds Seed Co.
Ouren Seed Co.
The Page Seed Co.
Paramount Seed Co.
Peppard Seed Co.
The Philadelphia Seed Co., The Philadelphia Seed Co., Inc.
Prunty Seed & Grain Co.
Prurcell Seed Co.
L. L. Radwaner Seed Co., Inc.
Ross Seed Co.
Rudy-Patrick Seed Co.
Rudy-Patrick Seed Co.
E. F. Sanguinetti
Wm. G. Scarlett & Co.
Walter S. Schell, Inc.
J. M. Schultz Seed Co.
O. M. Scott & Sons Co.
Seaboard Seed Co.
Sedgwick Alfalfa Mills
Geo. P. Sexauer & Son
Shultz Seed Co., Inc.
F. F. Smith & Co., Inc.
Sommer Bros. Seed Co.
J. H. Speers & Co., Ltd.
The Stanford Seed Co.
Steele Briggs Seed Co., Ltd.
Stollers Seed House
Transcontinental Seed, Inc. Hijos de S. V. Bellotti
The Belt Seed Co.
The Bowman Seed Co.
Robt. Buist Co.
Capital Fuel, Feed & Seed Co.
Corneli Seed Co.
Cuff-Archias Seed Co.
Duryea Seed Co., Inc.
Ferry-Morse Seed Co.
International Seed, Inc.
F. Lagomarsino & Sons
R. E. Lambert & Sons
D. Landreth Seed Co.
Julius Loewith, Inc.
Ed. F. Mangelsdorf & Bro.,
Inc.

D. Landreth Seed Co.
Julius Loewith, Inc.
Ed. F. Mangelsdorf & Bro.,
Inc.
The J. Chas. McCullough Seed
Seed Co.
Charles R. Moore
Robt. Nicholson Seed Co.
Northrup, King & Co. (Bomberger Div.)
Purcell Seed Co.
I. L. Radwaner Seed Co., Inc.
Ross Seed Co., Inc.
Rudy-Patrick Seed Co.
Russell-Heckle Seed Co.
E. F. Sanguinetti
Wm. G. Scarlett & Co.
Sedgwick Alfalfa Mills
Snelson Seed Co.
Stollers Seed House
Owen T. Watts
T. W. Wood & Sons
F. H. Woodruff & Sons, Inc.
Yuma Co. Farmers Mktg.
Assn.

BIRDSRAPE OR BIRDSRAPE OR

RUEBSEN

RUEBSEN
Corneli Seed Co.
Duryea Seed Co., Inc.
Julius Loewith, Inc.
Ed. F. Mangelsdorf & Bro.,
Inc.
The J. Chas. McCullough Seed
Co.
H. J. Mayer
Charles R. Moore
The Nebraska Seed Co.
Philadelphia Seed Co.
Wm. G. Scarlett & Co.
Stollers Seed House
T. W. Wood & Sons

BLUE GRASS

BLUE GRASS

The Ackerman Co.
Associated Seed Growers, Inc.
The Belt Seed Co.
The Bowman Seed Co.
The Bowman Seed Co.
C. S. Brent Seed Co.
Robt. Buist Co.
Cargill, Inc.
Arthur R. Cone
Condon Bros., Seedsman
Corneli Seed Co.
Craver-Dickinson Seed Co.
Dakota Improved Seed Co.
The Albert Dickinson Co.
J. L. Donley & Bro.
Duryea Seed Co., Inc.
Leslie Edgerton
A. Ertag, Inc.
Ferry-Morse Seed Co.
Funk Bros. Seed Co.
Ging & Company
Hamilton Seed & Coal Co.
The Chas. C. Hart Seed Co.
Kellogg Kelly Seed Co.
Kellogg Kelly Seed Co.
Geo. Keller & Sons
Kelly Seed Co.
F. Lagomarsino & Sons
R. E. Lambert & Sons
D. Landreth Seed Co.
The Chas. H. Lilly Co.
Julius Loewith, Inc.
Louisville Seed Co.
Ed. F. Mangelsdorf & Bro.,
Inc.
H. J. Mayer
The J. Chas. McCullough
Seed Co.
Chas. R. Moore
National Seed Co.
Newday Seeds, Inc.
Robt. Nicholsen Seed Co.
Northern Field Seed Co.
Northrup, King & Co. (Bomberger Div.)
Northwestern Seed Co.
The Page Seed Co.
The Page Seed Co.
Peppard Seed Co.
The Philadelphia Seed Co.
The Philadelphia Seed Co.
The Philadelphia Seed Co.
The Philadelphia Seed Co.
L. L. Olds Seed Co.
The Philadelphia Seed Co.
The Philadelphia Seed Co.
The Philadelphia Seed Co.
The Philadelphia Seed Co.
The Page Seed Co.
The Page Seed Co.
The Philadelphia Seed Co.
The Page Seed Co.
The Philadelphia Seed Co.
The Pilladelphia Seed Co.
The Pilladelphia Seed Co.
The Pilladelphia Seed Co.
The Pilladelphia Seed Co.
The Page Seed Co.
The Pilladelphia Seed Co.
The Pilladelphia Seed Co.
The Pilladelphia Seed Co.
The Page Seed Co.
The Radwaner Seed Co., Inc.
The Radwaner Seed Co., Inc.
The Radwaner Seed Co., Inc.
The Radwaner Seed Co., Inc. Inc.
Prunty Seed & Grain Co.
Prunty Seed Co.
I. L. Radwaner Seed Co., Inc.
Ross Seed Co.
Rudy-Patrick Seed Co.
Russell-Heckle Seed Co.
Wm. G. Scarlett & Co.
Walter S. Schell, Inc.

J. M. Schultz Seed Co.
Seaboard Seed Co.
Geo. P. Sexauer & Son
O. M. Scott & Sons Co.
Shultz Seed Co., Inc.
Sommer Bros. Seed Co.
Sphar & Gay Seed Co.
The Stanford Seed Co.
The Stanford Seed Co.
Steele, Briggs Seed Co., Ltd.
Stollers Seed House
Transcontinental Seed, Inc.
Twin City Seed Co.
Vaughan's Seed Store
Owen T. Watts
T. W. Wood & Sons
F. H. Woodruff & Sons, Inc.
Young & Conway

F. H. Woodruff & Sons, Inc.
Young & Conway

BROME GRASS
The Barteldes Seed Co.
The Belt Seed Co.
Blue Mt. Seed Growers Assn.
The Bowman Seed Co.
Cargill, Inc.
Corneli Seed Co.
Craver-Dickinson Seed Co.
Dakota Improved Seed Co.
The Albert Dickinson Co.
Duryea Seed Co., Inc.
Leslie Edgerton
Ferry-Morse Seed Co.
Funk Bros. Seed Co.
Goldberg Seed & Feed Co.
The Gooding Seed Co.
Griswold Seed & Nursery Co.
Hamilton Seed & Coal Co.
International Seed, Inc.
Interstate Seed & Grain Co.
Jenks-White Seed Co.
Kelly Seed Co.
F. Lagomarsino & Sons
Land O' Lakes Creameries,
Inc.
Julius Loewith, Inc.
Magill & Co.
Ed. F. Mangelsdorf & Bro.,
Inc.
McCabe Bros. Grain Co., Ltd.
The J. Chas. McCullough
Seed Co.
Mark Means Co.
Michael-Leonard Seed Co.
Chas. R. Moore
The Nebraska Seed Co.
Newday Seeds, Inc.
Northern Canadian Seed
Sales

Sales

Sales
Northern Field Seed Co.
Northrup, King & Co., (Bomberger Div.)
Northrup, King & Co., Mpls.
Northwestern Seed Co.
Northwestern Seed Growers,

Northwestern Seed Growers,
Inc.
L. L. Olds Seed Co.
Ouren Seed Co.
Peppard Seed Co.
Peppard Seed Co.
Purcell Seed Co.
I. L. Radwaner Seed Co., Inc.
Rudy-Patrick Seed Co.
Wm. G. Scarlett & Co.
Sedgwick Alfalfa Mills
Geo. P. Sexauer & Son
J. H. Speers & Co., Ltd.
The Stanford Seed Co.
Steele, Briggs Seed Co., Ltd.
Stollers Seed House
Twin City Seed Co.
Valker-Christensen Co.
Vaughan's Seed Store
F. H. Woodruff & Sons, Inc.

CANE

CANE
The Barteldes Seed Co.
The Belt Seed Co.
N. Bonahoom Seed Co.
The Bowman Seed Co.
C. S. Brent Seed Co.
Robt. Buist Co.
Cargill, Inc.
Corneli Seed Co.
The Albert Dickinson Co.
Funk Bros. Seed Co.
Griswold Seed & Nursery Co.
Hamilton Seed & Coal Co.
Holmes Seed Co. Hamilton seed & Coal Co.
Holmes Seed Co.
International Seed, Inc.
Kelly Seed Co.
F. Lagomarsino & Sons
R. E. Lambert & Sons
Louisville Seed Co.
Ed. F. Mangelsdorf & Bro.,
Inc. Ed. F. Mangelsdorf & Bro.,
Inc.
Inc.
The J. Chas. McCullough
Seed Co.
Chas. R. Moore
The Nebraska Seed Co.
Robt. Nicholson Seed Co.
Northwestern Seed Co., Inc.
L. L. Olds Seed Co.
Ouren Seed Co.
Peppard Seed Co.
The Philadelphia Seed Co.,
Inc.
Purcell Seed Co.
Ross Seed Co. Ross Seed Co. Rudy-Patrick Seed Co. Russell-Heckle Seed Co. Wm. G. Scarlett & Co. Walter S. Schell, Inc.

Sedgwick Alfalfa Mills George P. Sexauer & Son Snelson Seed Co. The Stanford Seed Co. Stollers Seed House Twin City Seed Co. Valker-Christensen Co. Owen T. Watts T. W. Wood & Sons

CARPET GRASS

CARPET GRASS
(Paspalum Compressum)
R. E. Lambert & Sons
Law, Somner Pty., Ltd.
Julius Loewith, Inc.
McHutchison & Co.
Chas. R. Moore
Robt. Nicholson Seed Co.
W. T. Nolin
Wm. G. Scarlett & Co.
T. W. Wood & Sons

CLOVER-ALSIKE The Ackerman Co.
Hijos de S. V. Bellotti
The Belt Seed Co.
Blue Mountain Seed Growers

The Belt Seed Co.
Blue Mountain Seed Growers
Assn.
C. S. Brent Seed Co.
Robert Buist Company
Capital Fuel, Feed & Seed Co.
Cargill, Inc.
The Albert Dickinson Co.
J. L. Donley & Bro.
A. Ertag, Inc.
Roscoe J. Carl & Son
Arthur R. Cone
Condon Bros., Seedsmen
Corneli Seed Co.
Craver-Dickinson Seed Co.
Duryea Seed Co., Inc.
Leslie Edgerton
Farmer Seed & Nursery Co.
Ferry-Morse Seed Co.
Globe Seed & Feed Co.
Globe Seed & Feed Co.
Globe Seed & Feed Co.
The Gooding Seed Co.
Hamilton Seed & Co.
Henry Hirsch & Sons, Inc.
Holmes Seed Co.
International Seed, Inc.
Interstate Seed & Grain Co.
Jenks-White Seed Co.
Geo. Keller & Sons
Kelly Seed Co.
F. Lagomarsino & Sons
Land O'Lakes Creameries,
Inc.
D. Landreth Seed Co.

Inc.
D. Landreth Seed Co.
The Chas. H. Lilly Co.
Julius Loewith, Inc.
Louisville Seed Co.
McCabe Bros. Grain Co., Ltd.
The J. Chas. McCullough
Seed Co.
Magill & Co.
Ed. F. Mangelsdorf & Bro.,
Inc.

Ed. F. Mangelsdorf & Bro., Inc.
Mark Means Co.
H. J. Mayer
Chas. R. Moore
National Seed Co., Inc.
The Nebraska Seed Co.
Robt. Nicholson Seed Co.
Northern Field Seed Co.
Northrup, King & Co., (Bomberger Div.)
Northrup, King & Co., Mpls.
Northwestern Seed Co.
Northwestern Seed Growers, Inc.

Inc.

Northwestern Seed Co.
Northwestern Seed Co.
Inc.
L. L. Olds Seed Co.
The O & M Seed Co.
Ouren Seed Co.
The Page Seed Co.
Peppard Seed Co.
Peppard Seed Co.
The Philadelphia Seed Co.,
Inc.
Trunty Seed & Grain Co.
Purcell Seed Co., Inc.
I. L. Radwaner Seed Co., Inc.
I. L. Radwaner Seed Co.
Rudy-Patrick Seed Co.
Rudy-Patrick Seed Co.
Rudy-Patrick Seed Co.
Walter S. Schell, Inc.
J. M. Schultz Seed Co.
O. M. Scott & Sons Co.
Seaboard Seed Co.
Geo. P. Sexauer & Son
Shultz Seed Co., Inc.
Sommer Bros. Seed Co.
Steele, Briggs Seed Co., Ltd.
Stollers Seed House
Transcontinental Seed, Inc.
Twin City Seed Co.
Vaughan's Seed Store
Owen T. Watts
T. W. Wood & Sons
F. H. Woodruff & Sons, Inc.
Young & Conway
CLOVER—ALYCE
The Belt Seed Co.

Young & Conway

CLOVER—ALYCE

The Belt Seed Co.

Duryea Seed Co., Inc.

The Chas. C. Hart Seed Co.

International Seed, Inc.

Kelly Seed Co.

R. E. Lambert & Sons

Chas. R. Moore
Robert Nicholson Seed Co.
L. L. Olds Seed Co.
I. L. Radwaner Seed Co., Inc.
Russell-Heckle Seed Co.
Snelson Seed Co.
T. W. Wood & Sons
F. H. Woodruff & Sons, Inc.

T. W. Wood & Sons. Inc.

CLOVER—BUKK

The Belt Seed Co.
Capital Fuel, Feed & Seed Co.
International Seed, Inc.
F. Lagomarsino & Sons
R. E. Lambert & Sons
Chas. R. Moore
Robt. Nicholson Seed Co.
Northrup, King & Co. (Bomberger Div.)
Ostberg Seed Co.
Paramount Seed Co.
Russell-Heckle Seed Co.
F. F. Smith & Co., Inc.
Snelson Seed Co.
Stollers Seed House
T. W. Wood & Sons
CLOVER—CRIMSON

CLOVER—CRIMSON
The Belt Seed Co.
C. S. Brent Seed Co.
Robert Buist Company
Capital Fuel, Feed & Seed Co.
Condon Bros., Seedsmen
Corneli Seed Co.
Craver-Dickinson Seed Co.
The Albert Dickinson Co.
Duryea Seed Co., Inc.
A. Ertag, Inc.
Ferry-Morse Seed Co.
Ging & Company
The Chas. C. Hart Seed Co.
International Seed, Inc.
Jenks-White Seed Co.
F. Lagomarsino & Sons
R. E. Lambert & Sons
D. Landreth Seed Co.
The Chas. H. Lilly Co.
Julius Loewith, Inc.
Louisville Seed Co.
The J. Chas. McCullough
Seed Co.
Ed. F. Mangelsdorf & Bro.,
Inc.
H. J. Mayer CLOVER—CRIMSON d. F. Mang Inc. . J. Mayer Inc.
H. J. Mayer
Chas. R. Moore
National Seed Co., Inc.
Robt. Nicholson Seed Co.
Ostberg Seed Co.
The Philadelphia Seed Co., Inc.
Purcell Seed Co.
I. L. Radwaner Seed Co., Inc.
Ross Seed Co., Inc.
Russell-Heckle Seed Co.
Wm. G. Scarlett & Co.
Walter S. Schell, Inc.
J. M. Schultz Seed Co.
Seaboard Seed Co., Shultz Seed Co.
Snelson Seed Co., Inc.
Snelson Seed Co., Transcontinental Seed, Inc.
Owen T. Watts
T. W. Wood & Sons
F. H. Woodruff & Sons, Inc.
CLOVER—LADINO

CLOVER-LADINO

The Belt Seed Co.
Blue Mountain Seed Growers
Assn.
Capital Fuel, Feed & Seed Co.
Arthur R. Cone
The Albert Dickinson Co.
Craver-Dickinson Seed Co.
Duryea Seed Co., Inc.
Ferry-Morse Seed Co.
Globe Seed & Feed Co.
The Gooding Seed Co.
The Gooding Seed Co.
International Seed, Inc.
Jenks-White Seed Co.
Josephine Growers Co-Op.
Assn.
Kelly Seed Co.
F. Lagomarsino & Sons
D. Landreth Seed Co.
The Chas. H. Lilly Co.
The Chas. H. Lilly Co.
The J. Chas. McCullough
Seed Co.
Mark Means Co.
Chas. R. Moore
Northrup, King & Co. (Bomberger Div.)
Ostberg Seed Co.
The Philadelphia Seed Co.
Inc.
Russell-Heckle Seed Co.
William G. Scarlett & Co.
Walter S. Schell, Inc.
Seaboard Seed Co.
Transcontinental Seed, Inc.
T. W. Wood & Sons
F. H. Woodruff & Sons, Inc.
CLOVER—MAMMOTH
RED The Belt Seed Co. Blue Mountain Seed Growers

CLOVER-MAMMOTH RED

Ackerman Co. C. S. Brent Seed Co.

Cargill, Inc.
Roscoe J. Carl & Son
Capital Fuel, Feed & Seed Co.
Corneli Seed Co.
Craver-Dickinson Seed Co.
Davenport Seed Co.
Albert Dickinson Co.
Duryea Seed Co., Inc.
Leslie Edgerton
Funk Bros. Seed Co.
Ging & Company
Globe Seed & Feed Co.
Hamilton Seed & Coal Co.
International Seed, Inc.
Janks-White Seed Co.
Geo. Keller & Sons
Kelly Seed Co.
H. C. King & Sons
F. Lagomarsino & Sons
R. Lambert & Sons
D. Landreth Seed Co.
Julius Loewith, Inc.
Louisville Seed Co.
Ed. F. Mangelsdorf & Bro.,
Inc.
In.
J. Mayer Ed. F. Mangelsdorf & Bro., Inc.
H. J. Mayer
McCabe Bros. Grain Co., Ltd.
The J. Chas. McCullough
Seed Co.
Michael-Leonard Co.
Chas. R. Moore
National Seed Co., Inc.
Nebraska Seed Co.,
Northrup, King & Co.
Northwestern Seed Growers,
Inc. Northwestern Seed Co., Inc.
Northwestern Seed Growers,
Inc.
L. L. Olds Seed Co.
Ostberg Seed Co.
Ouren Seed Co.
Page Seed Co.
Peppard Seed Co.
Philadelphia Seed Co., Inc.
Purcell Seed Co.
Ross Seed Co., Inc.
Rudy-Patrick Seed Co.
Wm. G. Scarlett & Co.
J. M. Schultz Seed Co.
O. M. Scott & Sons Co.
Seaboard Seed Co.
Geo. P. Sexauer & Son
The Stanford Seed Co.
Steele, Briggs Seed Co., Ltd.
Stollers Seed House
Transcontinental Seed. Inc.
Vaughan's Seed Store
Owen T. Watts
T. W. Wood & Sons
F. H. Woodruff & Sons, Inc.
Wright, Stephenson & Coy,
Ltd.
Young & Conway Young & Conway

CLOVER-PERSIAN

Corneli Seed Co. Duryea Seed Co., Inc. F. Lagomarsino & Sor R. E. Lambert & Sons W. T. Nolin

CLOVER-RED

The Ackerman Co.
The Barteldes Seed Co.
The Belt Seed Co. The Ackerman Co.
The Belt Seed Co.
The Belt Seed Co.
Blue Mountain Seed Growers
Assn.
C. S. Brent Seed Co.
Robt. Buist Co.
Capital Fuel, Feed & Seed Co.
Cargill, Inc.
Roscoe J. Carl & Son
Arthur R. Cone
Condon Bros., Seedsmen
Corneli Seed Co.
Craver-Dickinson Seed Co.
Davenport Seed Co.
Davenport Seed Co.
The Albert Dickinson Co.
J. L. Donley & Bro.
Duryea Seed Co.
Leslie Edgerton
A. Ertag, Inc.
Farmer Seed & Nursery Co.
Ferry-Morse Seed Co.
Globe Seed & Feed Co.
The Gooding Seed Co.
Griswold Seed & Nursery Co.
Hamilton Seed & Coston
Henry Hirsch & Sons, Inc.
Holmes Seed Co.
Globe Seed & Go.
Griswold Seed & Grain Co.
Jenks-White Seed Co.
Kelly Seed Co.
Growers Assn., Inc.
International Seed, Inc.
Interstate Seed & Grain Co.
Jenks-White Seed Co.
Kelly Seed Co.
Geo. Keller & Sons
H. C. King & Sons, Inc.
F. Lagomarsino & Sons
R. E. Lambert & Sons
D. Landreth Seed Co.
Land O'Lakes Creameries.
Inc.
The Chas. H. Lilly Co.
Julius Loewith. Inc. Inc.
The Chas. H. Lilly Co.
Julius Loewith, Inc.
Louisville Seed Co.
Ed. F. Mangelsdorf & Bro.,
Inc.

McCabe Bros. Grain Co., Ltd.
The J. Chas. McCullough
Seed Co.
Magill & Co.
H. J. Mayer
Montana Seed Co.
Chas. R. Moore
National Seed Co., Inc.
The Nebraska Seed Co.
Robert, Nicholson Seed Co.
W. T. Nolin
Northern Field Seed Co.
Northrup, King & Co. (Bomberger Div.)
Northwestern Seed Co.
L. L. Olds Seed Co.
L. L. Olds Seed Co.
Ostberg Seed Co.
Ouren Seed Co.
Ouren Seed Co.
The Page Seed Co.
The Page Seed Co.
The Philadelphia Seed Co.
The Philadelphia Seed Co.
Trunty Seed & Grain Co. A. S. Paterson & Coy, Ltd.
Peppard Seed Co.
The Philadelphia Seed Co.,
Inc.
Prunty Seed & Grain Co.
Prunty Seed & Grain Co.
Purcell Seed Co., Inc.
I. L. Radwaner Seed Co., Inc.
Ross Seed Co.
Rudy-Patrick Seed Co.
Seaboard Seed Co.
Seaboard Seed Co.
Wm. G. Scarlett & Co.
Walter S. Schell, Inc.
J. M. Schultz Seed Co.
O. M. Scott & Sons Co.
Geo. P. Sexauer & Son
Shultz Seed Co., Inc.
Sommer Bros. Seed Co.
Steele, Briggs Seed Co.
Steele, Briggs Seed Co.
Steele, Briggs Seed Co.
Steele, Briggs Seed Co.
Vaughan's Seed Tone.
Twin City Seed Co.
Vaughan's Seed Store
Owen T. Watts
T. W. Wood & Sons
F. H. Woodruff & Sons, Inc.
Wright, Stephenson & Coy,
Ltd.
Young & Conway

CLOVER—STRAWBERRY

CLOVER—STRAWBERRY

Blue Mountain Seed Growers Assn.
F. Lagomarsino & Sons
F. H. Woodruff & Sons, Inc.

CLOVER-SUBTERRANEAN

Law, Somner Pty., Ltd.

CLOVER-SWEET

CLOVER—SWEET
The Ackerman Co.
The Barteldes Seed Co.
The Belt Seed Co.
The Belt Seed Co.
The Bowman Seed Co.
Robt. Buist Co.
C. S. Brent Seed Co.
Capital Fuel, Feed & Seed Co.
Cargill, Inc.
Roscoe J. Carl & Son
Condon Bros., Seedsmen
Cornell Seed Co.
Craver-Dickinson Seed Co.
Craver-Dickinson Seed Co.
Dakota Improved Seed Co.
The Albert Dickinson Co.
J. L. Donley & Bro.
Duryea Seed Co., Inc.
Leslie Edgerton
Farmers Union Grain & Supply Co. Lesne Edgerton
Farmers Union Grain & Supply Co.
Ferry-Morse Seed Co.
Funk Bros. Seed Co.
Ging & Company
Globe Seed & Feed Co.
Goldberg Seed & Feed Co.
Griswold Seed & Nursery Co.
Hamilton Seed & Coal Co.
The Chas. C. Hart Seed Co.
Henry Hirsch & Sons
Holmes Seed Co.
Edgar F. Hurff Co.
International Seed, Inc.
Interstate Seed & Grain Co.
Jenks-White Seed Co.
Geo. Keller & Sons
Kelly Seed Co.
F. Lagomarsino & Sons
Lakin Seed Co.
D. Landreth Seed Co.
Land O'Lakes Creameries, Lakin Seed Co.
D. Landreth Seed Co.
Land O'Lakes Creameries,
Inc.
The Chas. H. Lilly Co.
Louisville Seed Co.
Magill & Co.
Ed. F. Mangelsdorf & Bro.,
Inc.
H. J. Mayer
McCabe Bros. Grain Co., Ltd.
The J. Chas. McCullough
Seed Co.
Montana Seed Co.
Chas. R. Moore
National Seed Co., Inc.
The Nebraska Seed Co.
Robt. Nicholson Seed Co.
Newday Seeds, Inc.

Sales
Northern Field Seed Co.
Northrup, King & Co. (Bomberger Div.)
Northrup, King & Co., Mpls.
Northwestern Seed Co.
Northwestern Seed Growers, Inc.
L. L. Olds Seed Co.
The O & M Seed Co.
Ostberg Seed Co.
Ouren Seed Co.
Peppard Seed Co.
The Philadelphia Seed Co., The Philadelphia Seed Co., Inc.
Prunty Seed & Grain Co.
Purcell Seed Co.
Russ Seed Co.
Russell-Heckle Seed Co.
Rudy-Patrick Seed Co.
Russell-Heckle Seed Co.
Wm. G. Scarlett & Co.
Walter S. Schell, Inc.
J. M. Schultz Seed Co.
O. M. Scott & Sons Co.
Seaboard Seed Co.
Sedgwick Alfalfa Mills
Geo. P. Sexauer & Son
Shultz Seed Co., Inc.
Sommer Bros. Seed Co.
The Stanford Seed Co.
Steele, Briggs Seed Co., Ltd.
Stollers Seed House
Transcontinental Seed, Inc.
Twin City Seed Co.
Valker-Christensen Co.
Owen T. Watts
T. W. Wood & Sons
F. H. Woodruff & Sons, Inc.
Young & Conway The I CLOVER-

Northern Canadian Seed

YELLOW SWEET

YELLOW SWEET

Ackerman Co.
Barteldes Seed Co.
Blue Mt. Seed Growers Assn.
Bowman Seed Co.
C. S. Brent Seed Co.
Cargill, Inc.
Roscoe J. Carl & Son
Corneli Seed Co.
Davenport Seed Co.
Duryea Seed Co.
Duryea Seed Co., Inc.
Leslie Edgerton
Goldberg Seed & Feed Co.
Ging & Company
Gooding Seed Co.
Geo. Keller & Sons
Kelly Seed Co.
H. C. King & Sons
F. Lagomarsino & Sons
R. E. Lambert & Sons
D. Landreth Seed Co.
Land O' Lakes Creameries.
Inc.
Chas. H Lilly Co. Land O Lanes Creams.
Inc.
Chas. H. Lilly Co.
Julius Loewith, Inc.
Magill & Co.
Ed. F. Mangelsdorf & Bro., Inc McCabe Bros. Grain Co., Ltd. The J. Chas. McCullough Seed Co. Michael-Leonard Co. Menael-Leonard Co. Chas. R. Moore Nebraska Seed Co. Newday Seeds, Inc. Northern Canadian Seed Northern Canadian Seed Sales
Northrup, King & Co. (Bomberger Div.)
Northrup, King & Co., Mpls.
Northwestern Seed Co.
Edgar L. Oakes & Co.
L. L. Olds Seed Co.
Page Seed Co.
Peppard Seed Co.
Phiradelphia Seed Co.
Purcell Seed Co.
Rudy-Patrick Seed Co.
Rudy-Patrick Seed Co.
Seaboard Seed Co.
Seaboard Seed Co.
Seaboard Seed Co.
Seaboard Seed Co.
Seo. P. Sexauer & Son
Stoller's Seed House
Owen T. Watts
Young & Conway
CLOVER—WHITE

CLOVER-WHITE

CLOVER—WHITE
The Belt Seed Co.
The Bowman Seed Co.
C. S. Brent Seed Co.
Robt. Buist Co.
Capital Fuel, Feed & Seed Co.
Cargill, Inc.
Condon Bros., Seedsmen
Corneli Seed Co.
Craver-Dickinson Seed Co.
The Albert Dickinson Co.
J. L. Donley & Bro.
Duryea Seed Co., Inc.
Leslie Edgerton
A. Ertag, Inc.
Ferry-Morse Seed Co.
Funk Bros. Seed Co.
Globe Seed & Feed Co.
The Gooding Seed Co.
Hamilton Seed & Coal Co.

The Chas. C. Hart Seed Co. Holmes Seed Co. Edgar F. Hurff Co. International Seed, Inc. Jenks-White Seed Co. Kellogg Kelly Seed Co. Kelly Seed Co. F. Lagomarsino & Sons R. E. Lambert & Sons Land O'Lakes Creameries, Inc. Inc.
D. Landreth Seed Co.
Law, Somner Pty., Ltd.
The Chas. H. Lilly Co.
Julius Loewith, Inc.
Louisville Seed Co.
Ed. F. Mangelsdorf & Bro.,
Inc.
H. J. Mayer
McCabe Bros. Grain Co., Ltd.
The J. Chas. McCullough
Seed Co.
Mark Means Co. Seed Co.
Mark Means Co.
Chas. R. Moore
National Seed Co., Inc.
The Nebraska Seed Co.
Robt. Nicholson Seed Co.
W. T. Nolin
Northern Field Seed Co.
Northrup, King & Co. (Bomberger Div.)
Northwestern Seed Growers,
Inc. Northwestern Seed Grower
Inc.
L. L. Olds Seed Co.
Ostberg Seed Co.
Ouren Seed Co.
The Page Seed Co.
Peppard Seed Co.
A. S. Paterson & Coy, Ltd.
The Philadelphia Seed Co. The Philadelphia Seed Co., Inc.
Inc.
Prunty Seed & Grain Co.
Purcell Seed Co.
I. L. Radwaner Seed Co., Inc.
Rudy-Patrick Seed Co.
Russell-Heckle Seed Co.
Wm. G. Scarlett & Co.
Walter S. Schell, Inc.
J. M. Schultz Seed Co.
O. M. Scott & Sons Co.
Seaboard Seed Co.
Geo. P. Sexauer & Son
Shultz Seed Co., Inc.
Snelson Seed Co.
The Stanford Seed Co.
The Stanford Seed Co.
Stollers Seed House
Transcontinental Seed, Inc.
Twin City Seed Co.
Vaughan's Seed Store
Owen T. Watts
T. W. Wood & Sons
F. H. Woodruff & Sons, Inc.
Wright, Stephenson & Coy,
Ltd. Inc

Ltd.

CLOVER—YELLOW
Albert Dickinson Co.
Duryea Seed Co., Inc.
Jenks-White Seed Co.
R. E. Lambert & Sons
Chas. H. Lilly Co.
Julius Loewith, Inc.
Robt. Nicholson Seed Co.
W. T. Nolin

CLOVER-WILD WHITE

CLOVER—WILD WHITE
Blue Mountain Seed Growers
Assn.
C. S. Brent Seed Co.
Capital Fuel, Feed & Seed Co.
Corneli Seed Co.
Albert Dickinson Seed Co.
Craver-Dickinson Seed Co.
Duryea Seed Co., Inc.
Ging & Company
Jenks-White Seed Co.
Kelly Seed Co.
R. E. Lambert & Sons
D. Landreth Seed Co.
Chas, H. Lilly Co.
Julius Loewith, Inc.
H. J. Mayer
The J. Chas, McCullough Seed
Co.
Chas, R. Magra

The J. Chas. McCullough Seed Co.
Chas. R. Moore
Ostberg Seed Co.
Philadelphia Seed Co.
Wm. G. Scarlett & Co.
Seaboard Seed Co.
The Stanford Seed Co.
Transcontinental Seed, Inc.
F. H. Woodruff & Sons, Inc.
Wright, Stephenson & Coy.
Ltd. Ltd.

CORN-FIELD

CORN—FIELD
The Barteldes Seed Co.
The Belt Seed Co.
N. Bonahoom Seed Co.
The Bowman Seed Co.
C. S. Brent Seed Co.
Robt. Buist Co.
Cargill, Inc.
C. S. Clark & Sons
Arthur R. Cone
Condon Bros. Seedsmen
Corneli Seed Co.
Council Bluffs Seed Co.
Craver-Dickinson Seed Co. Craver-Dickinson Seed Co. Dakota Improved Seed Co. The Albert Dickinson Co.
J. L. Donley & Bro.
Farmer Seed & Nursery Co.
Ferry-Morse Seed Co.
Hamilton Seed & Coal Co.
Funk Bros. Seed Co.
The Chas. C. Hart Seed Co.
Holmes Seed Co.
Edgar F. Hurff Co.
Interstate Seed & Grain Co.
Jacques Seed Co.
Jenks-White Seed Co.
Kellogg Kelly Seed Co.
Kelly Seed Co.
F. Lagomarsino & Sons
Land O' Lakes Creameries,
Inc. Inc.
R. E. Lambert & Sons
D. Landreth Seed Co.
Lewis Seed Co.
Louisville Seed Co.
Magill & Co.
Ed. F. Mangelsdorf & Bro., Ed. inc. McCabe Bros. Grain Co., Ltd. The J. Chas. McCullough Seed

McCabe Bros. Grain Co., Ltd.
The J. Chas. McCullough Seed
Co.
Michael-Leonard Co.
Chas. R. Moore
The Nebraska Seed Co.
Newday Seeds, Inc.
Robt. Nicholson Seed Co.
Nishna Valley Seed Co.
W. T. Nolin
Northern Field Seed Co.
L. L. Olds Seed Co.
The O& M Seed Co.
Ouren Seed Co.
The Page Seed Co.
Peppard Seed Co.
The Philadelphia Seed Co.
Inc.
Purcell Seed Co.
Riemers' Farms
Ross Seed Co., Inc.
Russell-Heckle Seed Co.
Walter S. Schell, Inc.
O. M. Scott & Sons Co.
Seaboard Seed Co,
Sedgwick Alfalfa Mills
George P. Sexauer & Son
Shultz Seed Co.
The Stanford Seed Co.
Stollers Seed House
Tracy & Son Farms
Twin City Seed Co.
Vaughan's Seed Store
Owen T. Watts
T. W. Wood & Sons
F. H. Woodruff & Sons. Inc.
CORN—FLINT
Cargill, Inc.

CORN-FLINT

CUKN—FLINI
Cargill, Inc.
C. S. Clark & Sons
Comstock, Ferre & Co.
Council Bluffs Seed Co.
Jenks-White Seed Co.
H. C. King & Sons
F. Lagomarsino & Sons
R. E. Lambert & Sons
Land O' Lakes Creameries,
Inc. Inc.
McCabe Bros. Grain Co., Ltd.
Chas. R. Moore
Nebraska Seed Co.
Northrup, King & Co., Mpls.
O. & M. Seed Co.
Edgar L. Oakes & Co.
L. L. Olds Seed Co.
Page Seed Co.
Philadelphia Seed Co.
J. C. Robinson Seed Co.
J. C. Robinson Seed Co.
Mm. G. Scarlett & Co.
Geo. P. Sexauer & Son
The Stanford Seed Co.
T. W. Wood & Sons
CORN (Hybrid)
Barteldes Seed Co.

CORN (Hybrid)

Barteldes Seed Co.
C. S. Brent Seed Co.
Bowman Seed Co.
Bowman Seed Co.
Cargill, Inc.
C. S. Clark & Sons
Condon Bros. Seedsmen
Corneli Seed Co.
Council Bluffs Seed Co.
Dakota Improved Seed Co.
Davenport Seed Co.
Funk Bros. Seed Co.
Hamilton Seed & Coal Co.
International Seed, Inc.
Jacques Seed Co.
Jenks-White Seed Co.
Kellogg Kelly Seed Co.
Kelly Seed Co.
H. C. King & Sons
F. Lagomarsino & Sons
Land O' Lakes Creameries.
Inc.
R. E. Lambert & Sons Inc.
R. E. Lambert & Sons
Louisville Seed Co.
Ed. F. Mangelsdorf & Bro. Inc.
McCabe Bros. Grain Co., Ltd.
The J. Chas. McCullough Seed

Chas. R. Moore
National Seed Co.
Nebraska Seed Co.
Nebraska Seed Co.
Newday Seeds, Inc.
Nishna Valley Seed Co.
Northrup, King & Co., Mpls.
Northwestern Seed Co.
O. & M. Seed Co.
Ouren Seed Co.
Edgar L. Oakes & Co.
L. L. Olds Seed Co.
Page Seed Co.
Page Seed Co.
Peppard Seed Co.
Philadelphia Seed Co.
Purcell Seed Co.
Purcell Seed Co.
J. C. Robinson Seed Co.
Ross Seed Co.
Wm. G. Scarlett & Co.
O. M. Scott & Sons Co.
Seaboard Seed Co.
Geo. P. Sexauer & Son
Shultz Seed Co., Inc.
Stollers Seed House
Stanford Seed Co.
Tracy & Son Farms
Owen T. Watts
T. W. Wood & Sons
F. H. Woodruff & Sons, Inc. COTTON

COTTON
Corneli Seed Co.
R. E. Lambert & Sons
Robt. Nicholson Seed Co.
Russell-Heckle Seed Co.
Shuler & Smoak
Snelson Seed Co.
(Sea Island Long Staple

only) T. W. Woods & Sons

COWPEAS

COWPEAS
Associated Seed Growers, Inc.
The Belt Seed Co.
C. S. Brent Seed Co.
Robert Buist Company
Condon Bros. Seedsmen
Corneli Seed Co.
Ferry-Morse Seed Co.
Funk Bros. Seed Co.
Ging & Company
The Chas. C. Hart Seed Co.
Edgar F. Hurff Co.
Kelly Seed Co.
F. Lagomarsino & Sons
R. E. Lambert & Sons
D. Landreth Seed Co.
Julius Loewith, Inc.
Louisville Seed Co.
Ed, F. Mangelsdorf & Bro.,
Inc. Louisville Seed Co.
Ed. F. Mangelsdorf & Bro.,
Inc.
The J. Chas. McCullough Seed
Co.
Chas. R. Moore
National Seed Co., Inc.
Robt. Nicholson Seed Co.
Peppard Seed Co.
The Philadelphia Seed Co.,
Inc.
Printy Seed & Grain Co. The Philadelphia Seed Co., Inc., Prunty Seed & Grain Co. Purcell Seed Co. Russell-Heckle Seed Co. Rudy-Patrick Seed Co. Russell-Heckle Seed Co. Wm. G. Scarlett & Co. J. M. Schultz Seed Co. Seaboard Seed Co. Seaboard Seed Co. Sedgwick Alfalfa Mills Shuler & Smoak Shultz Seed Co., Inc. Snelson Seed Co. Stollers Seed House Owen T. Watts T. W. Wood & Sons F. H. Woodruff & Sons, Inc. Young & Conway CRESTED DOGSTAIL

CRESTED DOGSTAIL

CRESTED DOGSTAIL
The Belt Seed Co.
Craver-Dickinson Seed Co.
Duryea Seed Co., Inc.
The Chas. C. Hart Seed Co.
International Seed, Inc.
Jenks-White Seed Co.
F. Lagomarsino & Sons
Julius Loewith, Inc.
The J. Chas. McCullough Seed
Co.

Co.
A. S. Paterson & Coy, Ltd.
I. L. Radwaner Seed Co., Inc.
Wm. G. Scarlett & Co.
The Stanford Seed Co. Transcontinental Seed, Inc. F. H. Woodruff & Sons, Inc. Wright, Stephenson & Coy

CRESTED WHEAT

GRASS
Barteldes Seed Co.
Blue Mt. Seed Growers Assn.
Bowman Seed Co.
Cargill, Inc.
Corneli Seed Co.
The Albert Dickinson Co.
Leslie Edgerton
Farmers Union Grain & Supnly Co. ply Co.
Goldberg Seed & Feed Co.
The Gooding Seed Co.
Griswold Seed & Nursery Co.

Jenks-White Seed Co. H. C. King & Sons F. Lagomarsino & Sons Lakin Seed Co. Land O' Lakes Creameries, Inc The Chas. H. Lilly Co. Julius Loewith, Inc. Ed F. Mangelsdorf & Bro., Inc Inc.
Magill & Co.
McCabe Bros. Grain Co., Ltd.
The J. Chas. McCullough Seed
Co.
Montana Seed Co.
Nebraska Seed Co.
Newday Seeds, Inc.
Robt. Nicholson Seed Co.
Northern Canadian Seed
Sales Sales
Northrup, King & Co. (Bomberger Div.)
Northrup, King & Co., Mpls. Edgar L. Oakes & Co.
L. L. Olds Seed Co.
Ouren Seed Co.
Peppard Seed Co.
Philadelphia Seed Co.
Rudy-Patrick Seed Co.
Geo. P. Sexauer & Son
Steele, Briggs Seed Co., Ltd.
Valker-Christensen Co.
F. H. Woodruff & Sons, Inc.
CROTALARIA Sales

CROTALARIA CROTALARIA
The Belt Seed Co.
Corneli Seed Co.
D. H. Gilbert Seed Co., Inc.
R. E. Lambert & Sons
Julius Loewith, Inc.
Robt. Nicholson Seed Co.
Riemers' Farms
Russell-Heckle Seed Co.
Wm. G. Scarlett & Co.
Simpson Nursery Co.
Snelson Seed Co.
T. W. Wood & Sons
F. H. Woodruff & Sons, Inc.
DALLIS CRASS

DALLIS GRASS
(Paspalum Dilatatum)

(Paspalum Dilatatum)
The Belt Seed Co.
Ferry-Morse Seed Co.
International Seed, Inc.
F. Lagomarsino & Sons
R. E. Lambert & Sons
Law, Somner Pty., Ltd.
Julius Loewith, Inc.
Chas. R. Moore
Rob. Nicholson Seed Co.
W. T. Nolin
Northrup, King & Co. (Bomberger Div.)
Riemers' Farms
Russell-Heckle Seed Co.
Wm. G. Scarlett & Co.
Snelson Seed Co.
Transcontinental Seed, Inc.
T. W. Wood & Sons
F. H. Woodruff & Sons, Inc.
Yuma Co. Farmers Mktg.
Assn. Assn.

ESPARSETTE OR
SANFOIN
Duryea Seed Co., Inc.
Julius Loewith, Inc.
FESCUES

Julius Loewith, İnc.
FESCUES
Associated Seed Growers, Inc.
The Belt Seed Co.
Blue Mt. Seed Growers Assn.
C. S. Brent Seed Go.
Robt. Buist Co.
Arthur R. Cone
Craver-Dickinson Seed Co.
Corneli Seed Co.
The Albert Dickinson Co.
J. L. Donley & Bro.
Duryea Seed Co., Inc.
Engbretson Seed Co.
A. Ertag, Inc.
Ferry-Morse Seed Co.
Hamilton Seed Co.
Hamilton Seed Co.
International Seed, Inc.
Jenks-White Seed Co.
Kelly Seed Co.
Kelly Seed Co.
Lagomarsino & Sons
D. Landreth Seed Co.
Lewis & Clark Seed Co., Inc.
The Chas. H. Lilly Co.
Julius Loewith, Inc.
Ed. F. Mangeldorf & Bro.,
Inc.
McCabe Bros. Grain Co., Ltd.
The J. Chas. McCullough Seed
Co.
Chas. R. Moore
Northern Canadian Seed Co. Chas. R. Moore Northern Canadian Seed

Northern Canadian Seed Sales Northrup, King & Co. (Bom-berger Div.) Northrup, King & Co., Mpls. Northwestern Seed Growers,

Inc. L. L. Olds Seed Co. Olsen's Seed Farms A. S. Paterson & Coy. Ltd.

Peppard Seed Co.
The Philadelphia Seed Co.,
Inc.
Rudy-Patrick Seed Co.
Wm. G. Scarlett & Co.
O. M. Scott & Sons Co.
Seaboard Seed Co.
The Stanford Seed Co
Stollers Seed House
Transcontinental Seed. Inc.
Twin City Seed Co.
Vaughan's Seed Store
T. W. Wood & Sons
F. H. Woodruff & Sons, Inc.
Wright, Stephenson & Coy,
Ltd.
FETERITA **FETERITA**

The Barteldes Seed Co.
N. Bonahoom Seed Co.
The Bowman Seed Co.
Capital Fuel, Feed & Seed Co.
Corneli Seed Co.
Ed. F. Mangelsdorf & Bro., Ed. F. Mangelsdorf & Bro.,
Inc.
The J. Chas. McCullough Seed
Co.
Robt. Nicholson Seed Co.
L. L. Olds Seed Co.
Peppard Seed Co.
Rudy-Patrick Seed Co.
Russell-Heckle Seed Co.
Sedgwick Alfalfa Mills
Geo. P. Sexauer & Son
Snelson Seed Co.

Snelson Seed Co.

FIELD PEAS
The Belt Seed Co.
C. S. Brent Seed Co.
Robt, Buist Co.
Cargill, Inc.
Arthur R. Cone
Condon Bros., Seedsmen
Corneli Seed Co.
Craver-Dickinson Seed Co.
The Albert Dickinson Co.
Duryea Seed Co., Inc.
Leslie Edgerton
A. Ertag, Inc.
Ferry-Morse Seed Co
The Chas. C. Hart Seed Co.
Holmes Seed Co.
Edgar F. Hurff Co.
International Seed, Inc.
Interstate Seed & Grain Co.
Jenks-White Seed Co.
F. Lagomarsino & Sons
R. E. Lambert & Sons
Law, Somner Pty., Ltd.
Leckenby Seed Co.
Julius Loewith, Inc.
Louisville Seed Co.
Magill & Co.
Ed. F. Mangelsdorf & Bro.,
Inc.
McCabe Bros. Grain Co., Ltd. FIELD PEAS Magili & Co.
Ed. F. Mangelsdorf & Bro.,
Inc.
McCabe Bros. Grain Co., Ltd.
The J. Chas. McCullough Seed The J. Chas. McCullough Seed Co.
Mark Means Co.
Montana Seed Co.
Chas. R. Moore
Robt. Nicholson Seed Co.
Northrup, King & Co.
(Bomberger Div.)
Northwestern Seed Growers,

Northwestern Seed Growers, Inc.
L. L. Olds Seed Co.
The Page Seed Co.
Paramount Seed Co.
A. S. Paterson & Coy, Ltd.
The Philadelphia Seed Co..
Inc.
Property Seed & Grain Co. The Philadelphia Seed Co..

Inc.

Prunty Seed & Grain Co.
I. L. Radwaner Seed Co., Inc.
Rudy-Patrick Seed Co.
Russell-Heckle Seed Co.
Russell-Heckle Seed Co.
Wm. G. Scarlett & Co.
Sedgwick Alfalfa Mills
Geo. P. Sexauer & Son
Shuler & Smoak
Shultz Seed Co., Inc.
F. F. Smith & Co., Inc.
Snelson Seed Co.
J. H. Speers & Co., Ltd.
The Stanford Seed Co.
Stollers Seed House
Transcontinental Seed, Inc.
Twin City Seed Co.
Owen T. Watts
T. W. Wood & Sons
F. H. Woodruff & Sons, Inc.
Wright, Stephenson & Coy,
Ltd.

GRASSES—FANCY

GRASSES-FANCY

GRASSES—FANCY
The Belt Seed Co.
Blue Mt. Seed Growers Assn.
The Bowman Seed Co.
Condon Bros., Seedsmen
Corneli Seed Co.
Craver-Dickinson Seed Co.
The Albert Dickinson Co.
J. L. Donley & Bro.
Duryea Seed Co., Inc.
Engbretson Seed Co.
Ferry-Morse Seed Co.
Hamilton Seed & Coal Co.
The Chas. C. Hart Seed Co.
Holmes Seed Co.

Michael-Leonard Co.

International Seed, Inc.
Jenks-White Seed Co.
Kelly Seed Co.
F. Lagomarsino & Sons
Lewis & Clark Seed Co., Inc.
The Chas. H. Lilly Co.
Julius Loewith, Inc.
Ed. F. Mangelsdorf & Bro.
Inc. The Chas. H. Lifty Co.
Julius Loewith, Inc.
Ed. F. Mangelsdorf & Bro.
Inc.
The J. Chas. McCullough Seed
Co.
Chas. R. Moore
The Nebraska Seed Co.
Newday Seeds, Inc.
Northrup, King & Co.
(Bomberger Div.)
Northrup, King & Co., Mpls.
L. L. Olds Seed Co.
Olsen's Seed Farms
Ostberg Seed Co.
Ouren Seed Co.
Peppard Seed Co.
The Philadelphia Seed Co.
Inc.
Prunty Seed & Grain Co.
Pruncell Seed Co.
I. L. Radwaner Seed Co., Inc.
Ross Seed Co.
Rudy-Patrick Seed Co.
Wm. G. Scarlett & Co.
O. M. Scott & Sons Co.
Seaboard Seed Co.
Shultz Seed Co., Inc.
The Stanford Seed Co.
Stollers Seed House
Transcontinental Seed, Inc.
Twin City Seed Co.
Vaughan's Seed Store
Owen T. Watts
T. W. Wood & Sons
F. H. Woodruff & Sons, Inc.
Yuma County Farmers Mktg.
ASSN.
GROHOMA GROHOMA

GROHOMA
The Barteldes Seed Co.
N. Boonhoom Seed Co.
The Bowman Seed Co.
Capital Fuel, Feed & Seed Co.
Corneli Seed Co.
Funk Bros. Seed Co.
Griswold Seed & Nursery Co.
Kelly Seed Co.
Ed. F. Mangelsdorf & Bro.,
Inc. Ed. F. Mangelsdorf & Bro., Inc. The J. Chas. McCullough Seed Co.
Robt. Nicholson Seed Co.
Rudy-Patrick Seed Co.
Rudy-Patrick Seed Co.
Russell-Heckle Seed Co.
Sedgwick Alfalfa Mills
Geo. P. Sexauer & Son
Shultz Seed Co., Inc.
Snelson Seed Co.
Twin City Seed Co.
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Twin City Seed Co.

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The Barteldes Seed Co.
N. Bonahoom Seed Co.
The Bowman Seed Co.
Capital Fuel, Feed & Seed Co.
Corneli Seed Co.
Funk Bros. Seed Co.
Griswold Seed & Nursery Co.
Hamilton Seed & Coal Co.
R. E. Lambert & Sons
Ed. F. Mangelsdorf & Bro.,
Inc. Ed. F. Mangelsdorf & Bro., Inc.
The J. Chas. McCullough Seed Co.
Robt. Nicholson Seed Co.
Northwestern Seed Co.
Ouren Seed Co.
Peppard Seed Co.
Rudy-Patrick Seed Co.
Rudy-Patrick Seed Co.
Russell-Heckle Seed Co.
Sedgwick Alfalfa Mills Geo. P. Sexauer & Son
Snelson Seed Co.
Twin City Seed Co.
T. W. Wood & Sons
Yuma Co. Farmers Mktg.
Assn.

HEMP

HEMP
C. S. Brent Seed Co.
Corneli Seed Co.
The Albert Dickinson Seed
Co. HEMP Co.
Duryea Seed Co., Inc.
Hamilton Seed & Coal Co.
Ed. Mangelsdorf & Bros., Inc.
The J. Chas. McCullough
Seed Co.
The Philadelphia Seed Co.,
Inc.
Prunty Seed & Co., Inc.
Prunty Seed & Grain Co.
Rudy-Patrick Seed Co.
Wm. G. Scarlett & Co.
The Stanford Seed Co.
Twin City Seed Co.
Owen T. Watts
JOHNSON GRASS
Capital Fuel, Feed & Seed
Co.

Co. Corneli Seed Co. F. Lagomarsino & Sons R. E. Lambert & Sons Ed. F. Mangelsdorf & Bro.,

Robt. Nicholson Seed Co.

Robt, Nicholson Seed Co.
Snelson Seed Co.
KAFIR CORN
The Barteldes Seed Co.
N. Bonahoom Seed Co.
The Bowman Seed Co.
Robert Buist Co.
Corneli Seed Co.
Duryea Seed Co., Inc.
Griswold Seed & Nursery Co.
Hamilton Seed & Coal Co.
Kelly Seed Co.
Ed. F. Mangelsdorf & Bro.,
Inc. Kelly Seed Co.
Ed. F. Mangelsdorf & Bro.,
Inc.
The J. Chas. McCullough
Seed Co.
The Nebraska Seed Co.
Robt. Nicholson Seed Co.
L. L. Olds Seed Co.
Ouren Seed Co.
Peppard Seed Co.
The Philadelphia Seed Co.,
Inc.
Rudy-Patrick Seed Co.
Russell-Heckle Seed Co.
Wm. G. Scarlett & Co.
Sedgwick Alfalfa Mills
Geo. P. Sexauer & Son
Snelson Seed Co.
Stollers Seed House
T. W. Wood & Sons
KUDZU
C. S. Brent Seed Co.
Corneli Seed Co.
Duryea Seed Co.
Duryea Seed Co.
Lambert & Sons
Julius Loewith, Inc.
Peppard Seed Co.
I. L. Radwaner Seed Co., Inc.
Wm. G. Scarlett & Co.
Snelson Seed Co.
LAWN MIXTURES

LAWN MIXTURES
Ackerman Co.
American Bulb Co.
Associated Seed Growers, American Bulb Co.
Associated Seed Growers,
Inc.
The Barteldes Seed Co.
The Belt Seed Co.
The Bowman Seed Co.
C. S. Brent Seed Co.
Robert Buist Co.
Cargill, Inc.
Arthur R. Cone
Condon Bros., Seedsmen
Corneli Seed Co.
The Albert Dickinson Co.
J. L. Donley & Bro.
Duryea Seed Co.
Tuc, Ferry-Morse Seed Co.
Hamilton Seed & Coal Co.
Hamilton Seed & Coal Co.
The Chas. C. Hart Seed Co.
Holmes Seed Co.
Kelly Seed Co.
F. Lagomarsino & Sons
D. Landreth Seed Co.
The Chas. H. Lilly Co.
Louisville Seed Co.
Magill & Co.
Ed. F. Mangelsdorf & Bro.,
Inc.
McCabe Bros. Grain Co., Ltd.

Ed. F. Mangelsdorf & Bro., Inc.

Inc.
McCabe Bros. Grain Co., Ltd. The J. Chas. McCullough Seed Co.
Chas. R. Moore
The Nebraska Seed Co.
Robt. Nicholson Seed Co.
Northrup, King & Co.
(Bomberger Div.)
Northrup, King & Co., Mpls.
L. L. Olds Seed Co.
O & M Seed Co.
Ostberg Seed Co.
Ouren Seed Co.
The Page Seed Co.
The Page Seed Co.
The Philadelphia Seed Co., Inc.
Frunty Seed & Grain Co.

The Philadelphia Seed Co., Inc.
Inc.
Prunty Seed & Grain Co.
I. L. Radwaner Seed Co., Inc.
Ross Seed Co.
Rudy-Patrick Seed Co.
Rudy-Patrick Seed Co.
Seaboard Seed Co.
Wm. G. Scarlett & Co.
Walter S. Schell, Inc.
O. M. Scott & Sons Co.
Sommer Bros. Seed Co.
Shultz Seed Co., Inc.
Geo. P. Sexauer & Son
The Stanford Seed Co.
Stollers Seed House
Transcontinental Seed, Inc.
Twin City Seed Co.
Vaughan's Seed Store
Owen T. Watts
T. W. Wood & Sons
F. H. Woodruff & Sons, Inc.
LESPEDEZA

LESPEDEZA The Barteldes Seed Co.
The Belt Seed Co.
The Bowman Seed Co.
C. S. Brent Seed Co.
Corneli Seed Co.
Craver-Dickson Seed Co.
Funk Bros. Seed Co.
The Albert Dickinson Co.

Hamilton Seed & Coal Co. The Chas. C. Hart Seed Co. Holmes Seed Co. International Seed, Inc. Holmes Seed Co.
International Seed, Inc.
Geo. Keller & Sons
Kelly Seed Co.
F. Lagomarsino & Sons
R. E. Lambert & Sons
Louisville Seed Co.
Ed. F. Mangelsdorf & Bro.,
Inc.
D. R. Mayo Seed Co.
The J. Chas. McCullough
Seed Co.
Chas. R. Moore
National Seed Co., Inc.
The Nebraska Seed Company
Robt. Nicholson Seed Co.
Northwestern Seed Co.
Ouren Seed Co.
Cu. L. Olds Seed Co.
Ouren Seed Co.
Peppard Seed Co.
The Philadelphia Seed Co.,
Inc.
Prunty Seed & Grain Co. The Philadelphia Seed Co., Inc.
Inc.
Prunty Seed & Grain Co.
Purcell Seed Co., Inc.
Riemers' Farms
Ross Seed Co.
Rudy-Patrick Seed Co.
Rudy-Patrick Seed Co.
Seaboard Seed Co.
Wm. G. Scarlett & Co.
J. M. Schultz Seed Co.
Shultz Seed Co., Inc.
Sedgwick Alfalfa Mills
Geo. P. Sexauer & Son
J. P. Snapp & Son
Snelson Seed Co.
Stollers Seed House
Owen T. Watts
T. W. Wood & Sons
F. H. Woodruff & Sons, Inc.
Young & Conway

LUPINES

Young & Conway

LUPINES

Hijos de S. V. Bellotti
Corneli Seed Co.
Duryea Seed Co., Inc.
R. Lambert & Sons
Julius Loewith, Inc.
I. L. Radwaner Seed Co., Inc.
Snelson Seed Co.
F. H. Woodruff & Sons, Inc.

MAPLE PEAS

Blue Mountain Seed Growers
Assn.

Blue Mountain seed Grond-Assn.

Assn.
Duryea Seed Co., Inc.
Julius Loewith, Inc.
F. Lagomarsino & Sons
Law, Somner Pty., Ltd.
The J. Chas. McCullough
Seed Co.
Philadelphia Seed Co.
Wm. G. Scarlett & Co.
Wright, Stephenson & Coy,
Ltd.

MELILOTUS INDICA C. S. Brent Seed Co. Capital Fuel, Feed & Seed Capital Fuel, Feed & Seed Co.
Co.
Cargill, Inc.
Corneli Seed Co.
Cuff-Archias Seed Co.
Albert Dickinson Co.
Duryea Seed Co., Inc.
Kelly Seed Co.
F. Lagomarsino & Sons
R. E. Lambert & Sons
Chas. R. Moore
Nebraska Seed Co.
Robt. Nicholson Seed Co.
Northrup, King & Co.
(Bomberger Div.)
Paramount Seed Co.
Yuma Co. Farmers Mktg.
Assn.
MICHELS
Blue Mt. Seed Growers Ass

MICHELS
Blue Mt. Seed Growers Assn.
Corneli Seed Co.
Duryea Seed Co., Inc.
Globe Seed & Feed Co.
The Gooding Seed Co.
Kelly Seed Co.
F. Lagomarsino & Sons
Leckenby Seed Co.
The J. Chas. McCullough
Seed Co.
Chas. R. Moore
Robt. Nicholson Seed Co.
Northwestern Seed Growers,
Inc.
Budy-Patrick Seed Co.

Inc.
Rudy-Patrick Seed Co.
Stollers Seed House
F. H. Woodruff & Sons, Inc.
MILLETS

MILLETS
The Barteldes Seed Co.
The Belt Seed Co.
N. Bonahoom Seed Co.
The Bowman Seed Co.
Robert Buist Co.
C. S. Brent Seed Co.
Cargill, Inc.
Arthur R. Cone
Cornell Seed Co.
Craver-Dickinson Seed Co.
Dakota Improved Seed Co.
The Albert Dickinson Co.
Duryea Seed Co., Inc.
Leslie Edgerton

Ferry-Morse Seed Co.
Funk Bros. Seed Co.
Hamilton Seed & Coal Co.
The Chas. C. Hart Seed Co.
Holmes Seed Co.
Edgar F. Hurff Co.
Interstate Seed & Grain Co.
Kelly Seed Co.
F. Lagomarsino & Sons
R. E. Lambert & Sons
Law, Somner Pty., Ltd.
Louisville Seed Co.
Magill & Co.
Ed. F. Mangelsdorf & Bro.,
Inc. Ed. F. Mangelsdorf & Bro., Inc.
D. R. Mayo Seed Co.
McCabe Bros. Grain Co., Ltd.
The J. Chas. McCullough
Seed Co.
Chas. R. Moore
The Nebraska Seed Co.
Newday Seeds, Inc.
Robt. Nicholson Seed Co.
L. L. Olds Seed Co.
Ouren Seed Co.
The Page Seed Co.
Peppard Seed Co.
The Philadelphia Seed Co.,
Inc.
Prunty Seed & Grain Co. The Philadelphia Seed Co., Inc.
Prunty Seed & Grain Co.
Purcell Seed Co.
Riemers' Farms
Ross Seed Co.
Rudy-Patrick Seed Co.
Rudy-Patrick Seed Co.
Wm. G. Scarlett & Co.
Walter S. Schell, Inc.
J. M. Schultz Seed Co.
Sedgwick Alfalfa Mills
Geo. P. Sexauer & Son
Shultz Seed Co., Inc.
Snelson Seed Co., Inc.
Snelson Seed Co.
(Cattail and Brown Top)
The Stanford Seed Co.
Transcontinental Seed, Inc.
Twin City Seed Co.
Valker-Christensen Co.
T. W. Wood & Sons
F. H. Woodruff & Sons, Inc.

MILO MAIZE MILO MAIZE
The Barteldes Seed Co.
N. Bonahoom Seed Co.
The Bowman Seed Co.
Capital Fuel, Feed & Seed Co.
Corneli Seed Co.
Duryea Seed Co., Inc.
Ferry-Morse Seed Co.
Kelly Seed Co.
F. Lagomarsino & Sons
Ed. F. Mangeldorf & Bro.,
Inc.

F. Lagomarsino & Sons
Ed. F. Mangeldorf & Bro.,
Inc.
The J. Chas. McCullough
Seed Co.
The Nebraska Seed Co.
Robt. Nicholson Seed Co.
Northrup, King & Co.
(Bomberger Div.)
L. L. Olds Seed Co.
Paramount Seed Co.
Peppard Seed Co.
The Philadelphia Seed Co.,
Inc.
Rudy-Patrick Seed Co.
Rusself-Heckle Seed Co.
Wm. G. Scarlett & Co.
Sedgwick Alfalfa Mills
Geo. P. Sexauer & Son
F. F. Smith & Co., Inc.
Snelson Seed Co.
Stollers Seed House
T. W. Wood & Sons
F. H. Woodruff & Sons, Inc.
MUNG BEANS

MUNG BEANS MUNG BLANS
Corneli Seed Co.
R. E. Lambert & Sons
Julius Loewith, Inc.
The J. Chas. McCullough
Seed Co.
Robt. Nicholson Seed Co.
J. M. Schultz Seed Co.
Snelson Seed Co.

OAT GRASS

OAT GRASS
The Belt Seed Co.
C. S. Brent Seed Co.
Cargill, Inc.
Cornell Seed Co.
Duryea Seed Co., Inc.
The Chas. C. Hart Seed Co.
Jenks-White Seed Co.
F. Lagomarsino & Sons
The Chas. H. Lilly Co.
Julius Loewith, Inc.
The J. Chas. McCullough
Seed Co.
Chas. R. Moore
National Seed Co.
Northwestern Seed Growers,
Inc. Inc.

Inc.
Peppard Seed Co.
The Philadelphia Seed Co.,
Inc.
Russell-Heckle Seed Co.
Wm. G. Scarlett & Co.
Stollers Seed House
The Wetsel Seed Co., Inc.
T. W. Wood & Sons
F. H. Woodruff & Sons, Inc.

SEED TRADE

Inc

OIL SEEDS

Chas. H. Lilly Co.
McCabe Bros. Grain Co., Ltd.
The J. Chas. McCullough
Seed Co.
Wm. G. Scarlett & Co.

ORCHARD GRASS

Wm. G. Scarlett & Co.
ORCHARD GRASS
The Belt Seed Co.
C. S. Brent Seed Co.
Cargill, Inc.
Corneli Seed Co.
Craver-Dickinson Seed Co.
The Albert Dickinson Co.
Duryea Seed Co., Inc.
A. Ertag, Inc.
Ferry-Morse Seed Co.
Ferry-Morse Seed Co.
The Chas. C. Hart Seed Co.
Holmes Seed Co.
Jenks-White Seed Co.
Kelly Seed Co.
F. Lagomarsino & Sons
R. E. Lambert & Sons
D. Landreth Seed Co.
Law, Somner Pty., Ltd.
The Chas. H. Lilly Co.
Julius Loewith, Inc.
Louisville Seed Co.
Ed. F. Mangelsdorf & Bro.,
Inc.
H. J. Mayer
The J. Chas. McCullough
Seed Co.
Chas. R. Moore
National Seed Co.
Northrup, King & Co.
(Bomberger Div.)
Northwestern Seed Growers,
Inc.
L. L. Olds Seed Co. (Bomberger Div.)
Northwestern Seed Growers, Inc.
L. L. Olds Seed Co.
Ouren Seed Co.
Peppard Seed Co.
The Philadelphia Seed Co., Inc.
Purcell Seed Co.
I. L. Radwaner Seed Co., Inc.
Ross Seed Co.
Rudy-Patrick Seed Co.
Rudy-Patrick Seed Co.
Wm. G. Scarlett & Co.
Wm. G. Scarlett & Co.
Walter S. Schell, Inc.
Seaboard Seed Co., Inc.
The Stanford Seed Co.
Stollers Seed House
Transcontinental Seed, Inc.
Twin City Seed Co.
Owen T. Watts
The Wetsel Seed Co., Inc.
T. W. Wood & Sons
F. H. Woodruff & Sons, Inc.
Wright, Stephenson & Coy,
Ltd.
Young & Conway Ltd. Young & Conway

PASTURE MIXTURES

The Belt Seed Co.
C. S. Brent Seed Co.
The Bowman Seed Co.
Robert Buist Co.
Cargill, Inc.
Condon Bros., Seedsmen
Arthur R. Cone
Corneli Seed Co.
The Albert Dickinson Seed Co.
The Cone
Cone Seed Co.
The Chas. Cone
Ferry-Morse Seed Co.
Hamilton Seed & Coal Co.
Hamilton Seed & Coal Co.
Hamilton Seed Co.
Hart Seed Co.
Kelly Seed Co.
F. Lagomarsino & Sons
D. Landreth Seed Co.
The Chas. H. Lilly Co.
Louisville Seed Co.
McCabe Bros. Grain Co., Ltd.
Magill & Co.
Ed. F. Mangelsdorf & Bro.,
Inc.
The J. Chas. McCullough PASTURE MIXTURES Magill & Co.
Ed. F. Mangelsdorf & Bro.,
Inc.
The J. Chas. McCullough
Seed Co.
Michael-Leonard Co.
Chas. R. Moore
National Seed Co., Inc.
The Nebraska Seed Co.
Robt. Nicholson Seed Co.
W. T. Nolin
Northrup, King & Co.
(Bomberger Div.)
Northwestern Seed Growers,
Inc.
L. L. Olds Seed Co.
Ouren Seed Co.
Prunty Seed & Grain Co.
Prunty Seed & Grain Co.
Prunty Seed & Co.
L. L. Radwaner Seed Co.
I. L. Radwaner Seed Co.
Rudy-Patrick Seed Co.
Rudy-Patrick Seed Co.
William G. Scarlett & Co.
Walter S. Schell, Inc. O. M. Scott & Sons Co.
Seaboard Seed Co.
Geo. P. Sexauer & Son
The Stanford Seed Co.
Stollers Seed House
Transcontinental Seeds, Inc.
Twin City Seed Co.
Owen T. Watts
T. W. Wood & Sons
F. H. Woodruff & Sons, Inc.
PHALARIS TUBEROSE
Law. Somner Ptv., Ltd.

Law, Somner Pty., Ltd.

POA TRIVIALIS

POA TRIVIALIS

Ackerman Co.
Associated Seed Growers,
Inc.
Barteldes Seed Co.
C. S. Brent Seed Co.
Robert Buist Co.
Cargill, Inc.
Corneli Seed Co.
Albert Dickinson Co.
Craver-Dickinson Seed Co.
Duryea Seed Co., Inc.
Funk Bros. Seed Co.
Hamilton Seed & Coal Co.
International Seed, Inc.
Jenks-White Seed Co.
Kelly Seed Co.
H. C. King & Sons
F. Lagomarsino & Sons
D. Landreth Seed Co.
Chas. H. Lilly Co.
Julius Loewith, Inc.
Louisville Seed Co.
Ed. F. Mangelsdorf & Bro.,
Inc.
H. J. Mayer
The J. Chas. McCullough
Seed Co.
Chas. R. Moore
John Mosbell Co.
National Seed Co., Inc.
Nebraska Seed Co.
Robt. Nicholson Seed Co.
Northrup, King & Co.
(Bomberger Div.)
L. L. Olds Seed Co.
Ouren Seed Co.
Philadelphia Seed Co.
Philadelphia Seed Co.
Thus.
Ross Seed Co.
Seed Co.
Philadelphia Seed Co.
O. M. Scott & Sons Co.
Geo. P. Sexauer & Son
The Stanford Seed Co.
Steele, Briggs Seed Co. Ackerman Co. Associated Seed Growers,

RAPE

RAPE
The Belt Seed Co.
Bowman Seed Co.
C. S. Brent Seed Co.
Robert Buist Company
Cargill, Inc.
Corneli Seed Co.
Craver-Dickinson Seed Co.
Dakota Improved Seed Co.
Dakota Improved Seed Co.
The Albert Dickinson Co.
J. L. Donley & Bro.
Duryea Seed Co., Inc.
A. Ertag, Inc.
Ferry-Morse Seed Co.
Hamilton Seed & Coal Co.
The Chas. C. Hart Seed Co.
Hamilton Seed & Coal Co.
The Chas. C. Hart Seed Co.
Holmes Seed Co.
Kelly Seed Co.
F. Lagomarsino & Sons
R. F. Lambert & Sons
D. Landreth Seed Co.
Leckenby Seed Co.
The Chas. H. Lilly Co.
Julius Loewith, Inc.
Louisville Seed Co.
Ed. F. Mangelsdorf & Bro.,
Inc.
The J. Chas. McCullough
Seed Co.
Mark Means Co.
Michael-Leonard Co.
Chas. R. Moore
The Nebraska Seed Co.
Northwestern Seed Co.
Northwestern Seed Co.
The Philadelphia Seed Co.
The Philadelphia Seed Co.
Peppard Seed Co.
The Philadelphia Seed Co.
Tinc.
Thu. Seed Co.
The Philadelphia Seed Co.
The Philadelphia Seed Co.
The Priladelphia Seed Co.
Thur Seed & Grain Co.
Purnet Seed & Grain Co.
Purnet Seed Co.
Purnet Seed & Grain Co.
Purnet Seed & Grain Co.
Purnet Seed & Grain Co.
Purnet Seed Co. The Philadelphia Seed Co., Inc.
Prunty Seed & Grain Co.
Purcell Seed Co.
I. L. Radwaner Seed Co., Inc.
Ross Seed Co.
Rudy-Patrick Seed Co.
Russell-Heckle Seed Co.
Wm. G. Scarlett & Co.
Walter S. Schell, Inc.
J. M. Schultz Seed Co.

Shultz Seed Co., Inc.
Seaboard Seed Co.
Geo. P. Sexauer & Son.
Snelson Seed Co.
The Stanford Seed Co.
Stollers Seed House
Transcontinental Seed, Inc.
Twin City Seed Co.
Vaughan's Seed Store
T. W. Wood & Sons
F. H. Woodruff & Sons, Inc.
Wright, Stephenson & Coy,
Ltd.

REDTOP

Wright, Stephenson & Coy,
Ltd.

REDTOP

The Ackerman Co.
Associated Seed Growers, Inc.
The Belt Seed Co.
The Bowman Seed Co.
C. S. Brent Seed Co.
Robert Buist Company
Cargill, Inc.
Condon Bros., Seedsmen
Arthur R. Cone
Corneli Seed Co.
Craver-Dickinson Seed Co.
The Albert Dickinson Co.
J. L. Donley & Bro.
Duryea Seed Co., Inc.
A. Ertag, Inc.
Ferry-Morse Seed Co.
Funk Bros. Seed Co.
Ging & Co.
Hamilton Seed & Coal Co.
The Chas. C. Hart Seed Co.
Holmes Seed Co.
International Seed, Inc.
Jenks-White Seed Co.
Kellogg Kelly Seed Co.
Kellogg Kelly Seed Co.
Kelly Seed Co.
Geo. Keller & Sons
F. Lagomarsino & Sons
D. Landreth Seed Co.
R. E. Lambert & Sons
The Chas. H. Lilly Co.
Julius Loewith, Inc.
Louisville Seed Co.
Ed. F. Mangelsdorf & Bro.,
Inc.
H. J. Mayer
The J. Chas. McCullough
Seed Co.
Michael-Leonard Co.
Chas. R. Moore
National Seed Co., Inc.
The Nebraska Seed Co.
Northrup, King & Co.
(Bomberger Div.)
Northrup, King & Co.
(Bomberger Div.)
Northrup, King & Co.
(The Page Seed Co.
Peppard Seed Co.
Peppard Seed Co.
The Philadelphia Seed Co.
Turty Seed & Grain Co.
Purcell Seed Co.
L. L. Radwaner Seed Co., Inc.

The Philadelphia Seed Co., Inc.
Prunty Seed & Grain Co.
Purcell Seed Co.
I. L. Radwaner Seed Co., Inc.
Ross Seed Co.
Rudy-Patrick Seed Co.
Rudy-Patrick Seed Co.
Russell-Heckle Seed Co.
Wm. G. Scarlett & Co.
J. M. Schultz Seed Co.
Walter S. Schell, Inc.
O. M. Scott & Sons Co.
Shultz Seed Co., Inc.
Seaboard Seed Co., Inc.
Seaboard Seed Co.
Geo. P. Sexauer & Son
Snelson Seed Co.
The Stanford Seed Co.
Stollers Seed House
Transcontinental Seed, Inc.
Twin City Seed Co.
Vaughan's Seed Store
Owen T. Watts
T. W. Wood & Sons
F. H. Woodruff & Sons, Inc.
Young & Conway

REED CANARY GRASS

REED CANARY GRASS

REED CANARY GRASS
The Belt Seed Co.
Cargill, Inc.
Corneli Seed Co.
Craver-Dickinson Seed Co.
The Albert Dickinson Co.
Duryea Seed Co., Inc.
Leslie Edgerton
Farmer Seed & Nursery Co.
Ferry-Morse Seed Co.
Hamilton Seed & Coal Co.
Hamilton Seed & Coal Co.
Holmes Seed Co.
Interstate Seed & Grain Co.
Jenks-White Seed Co.
Kelly Seed Co.
F. Lagomarsino & Sons
The Chas. H. Lilly Co.
Julius Loewith, Inc.
Magill & Co.
Ed. F. Mangelsdorf & Bro.,
Inc.
McCabe Bros. Grain Co., Ltd.
The J. Chas. McCullough
Seed Co.
Michael-Leonard Co.
Chas. R. Moore

The Nebraska Seed Co.
Newday Seeds, Inc.
Northrup, King & Co.
(Bomberger Div.)
Northrup, King & Co., Mpls.
Northwestern Seed Co.
L. L. Olds Seed Co.
Ouren Seed Co.
The Philadelphia Seed Co.,
Inc. The Philadelphia Seed Co., Inc.
Inc.
Rudy-Patrick Seed Co.
Wm. G. Scarlett & Co.
Walter S. Schell, Inc.
Geo. P. Sexauer & Son
Snelson Seed Co.
The Stanford Seed Co.
Stollers Seed House
Twin City Seed Co.
Vaughan's Seed Store
F. H. Woodruff & Sons, Inc.

F. H. Woodruff & Sons, Inc.

RESCUE GRASS
The Belt Seed Co.,
Duryea Seed Co., Inc.
F. Lagomarsino & Sons
R. E. Lambert & Sons
Law, Somner Pty., Ltd.
Julius Loewith, Inc.
Chas. R. Moore
Robt. Nicholson Seed Co.
A. S. Paterson & Coy, Ltd.
I. L. Radwaner Seed Co., Inc.
Snelson Seed Co.
Stollers Seed House
RHODES GRASS

RHODES GRASS
The Belt Seed Co.
Duryea Seed Co., Inc.
Ferry-Morse Seed Co.
F. Lagomarsino & Sons
R. E. Lambert & Sons
Law, Somner Pty., Ltd.
Julius Loewith, Inc.
Chas. R. Moore
Robt. Nicholson Seed Co.
Northrup, King & Co.
(Bomberger Div.)
I. L. Radwaner Seed Co., Inc.
William G. Scarlett & Co.
Snelson Seed Co.
Stollers Seed House
RYE GRASS—DOMESTIC RYE GRASS—DOMESTIC

Snelson Seed Co.
Stollers Seed House
RYE GRASS—DOMESTIC
The Ackerman Co.
Associated Seed Growers, Inc.
The Belt Seed Co.
The Bowman Seed Co.
C. S. Brent Seed Co.
Robert Buist Company
Capital Fuel, Feed & Seed
Co.
Cargill, Inc.
Arthur R. Cone
Corneli Seed Co.
Craver-Dickinson Seed Co.
Dakota Improved Seed Co.
Dakota Improved Seed Co.
The Albert Dickinson Co.
J. L. Donley & Bro.
Duryea Seed Co., Inc.
A. Ertag, Inc.
Ferry-Morse Seed Co.
Hamilton Seed & Co.
Holmes Seed Co.
Hamilton Seed & Co.
International Seed, Inc.
Jenks-White Seed Co.
Kelly Seed Co.
Kelly Seed Co.
Kelly Seed Co.
Julius Loewith, Inc.
Louisville Seed Co.
Louisville Seed Co.
H. J. Mayer
The J. Chas, McCullough
Seed Co.
Chas, R. Moore
National Seed Co.
Robt, Nicholson Seed Co.
Northrup, King & Co.
(Bomberger Div.)
L. L. Olds Seed Co.
Ostberg Seed Co.
Ostberg Seed Co.
Peppard Seed Co.
The Chas Seed Co.
The Philadelphia Seed Co.
Purcell Seed Co.

The Philadelphia Seed Co., Inc.
Prunty Seed & Grain Co.
Purcell Seed Co.
L. Radwaner Seed Co., Inc.
Ross Seed Co., Inc.
Rudy-Patrick Seed Co.
Russell-Heckle Seed Co.
Wm. G. Scarlett & Co.
Walter S. Schell, Inc.
O. M. Scott & Sons Co.
Seaboard Seed Co.
Geo. P. Sexauer & Son
Shultz Seed Co., Inc.
F. F. Smith & Co., Inc.
Snelson Seed Co.
J. H. Speers & Co., Ltd.
The Stanford Seed Co.
Stollers Seed House
Transcontinental Seed, Inc.

Twin City Seed Co.
Vaughan's Seed Store
Owen T. Watts
T. W. Wood & Sons
F. H. Woodruff & Sons, Inc.
Young & Conway

RYE GRASS—ENGLISH

RYE GRASS—ENGLISH
C. S. Brent Seed Co.
Corneli Seed Co.
Craver-Dickson Seed Co.
Dakota Improved Seed Co.
Duryea Seed Co., Inc.
International Seed, Inc.
Jenks-White Seed Co.
F. Lagomarsino & Sons
R. E. Lambert & Sons
D. Landreth Seed Co.
Chas. H. Lilly Co.
Julius Loewith, Inc.
Ed. F. Mangelsdorf & Bro.,
Inc.
H. J. Mayer

Julius Loewith, Inc.
Ed. F. Mangelsdorf & Bro.,
Inc.
H. J. Mayer
J. Chas. McCullough Seed Co.
Michael-Leonard Co.
John Mosbell Co.
Northrup, King & Co.
(Bomberger Div.)
Philadelphia Seed Co., Inc.
O. M. Scott & Sons Co.
The Stanford Seed Co.
Steele, Briggs Seed Co., Ltd.
Geo. P. Sexauer & Son
J. H. Speers & Co., Ltd.
Stollers Seed House
Vaughan's Seed Store
Owen T. Watts
T. W. Wood & Sons
F. H. Woodruff & Sons, Inc.
Young & Conway

RYE GRASS—ITALIAN
C. S. Brent Seed Co.
Robert Buist Company
Dakota Improved Seed Co.
International Seed, Inc.
Jenks-White Seed Co.
Kelly Seed Co.
Kelly Seed Co.
Lagomarsino & Sons
R. E. Lambert & Sons
D. Landreth Seed Co.
Julius Loewith, Inc.
Ed. F. Mangelsdorf & Bro.,
Inc.
The J. Chas. McCullough

Ed. F. Mangelsdorf & Bro Inc. The J. Chas. McCullough Seed Co. Michael-Leonard Co. Michael-Leonard Co.
John Mosbell Co.
Nobraska Seed Co.
Northrup, King & Co. (Bomberger Div.)
Philadelphia Seed Co., Inc.
Wm. G. Scarlett & Co.
Geo. P. Sexauer & Son
O. M. Scott & Sons Co.
The Stanford Seed Co.
Steele, Briggs Seed Co.
Ltd.
Vaughan's Seed Store
Owen T. Watts
T. W. Wood & Sons
F. H. Woodruff & Sons, Inc.
Wright, Stephenson & Coy,
Ltd.

RYE GRASS-PERENNIAL

PERENNIAL
The Ackerman Co.
The Bowman Seed Co.
C. S. Brent Seed Co.
Robert Buist Company
Craver-Dickinson Seed Co.
Duryea Seed Co., Inc.
Funk Bros. Seed Co.
International Seed, Inc.
Jenks-White Seed Co.
H. C. King & Sons
F. Lagomarsino & Sons
R. E. Lambert & Sons
D. Landreth Seed Co.
Law, Somner Pty., Ltd.
Chas. H. Lilly Co.
Julius Loewith, Inc.
Ed. F. Mangelsdorf & Bro.,
Inc. Chas. H. Lilly Co.
Julius Loewith, Inc.
Ed. F. Mangelsdorf & Bro.,
Inc.
The J. Chas. McCullough
Seed Co.
Michael-Leonard Co.
John Mosbell Co.
Nebraska Seed Co.
Northrup, King & Co.
(Bomberger Div.)
Ostberg Seed Co.
Philadelphia Seed Co., Inc.
A. S. Paterson & Coy, Ltd.
Seaboard Seed Co.
Wm. G. Scarlett & Co.
O. M. Scott & Sons Co.
Geo. P. Sexauer & Son
Snelson Seed Co.
J. H. Speers & Co., Ltd.
The Stanford Seed Co., Ltd.
The Stanford Seed Co.
Vaughan's Seed Store
Owen T. Watts
T. W. Wood & Sons
F. H. Woodruff & Sons, Inc.
Wright, Stephenson & Coy,
Ltd.

ROSEN RYE ROSEN RYE
The Belt Seed Co.

C. S. Brent Seed Co.
Robert Buist Company
Cargill, Inc.
Arthur R. Cone
Cornell Seed Co.
The Albert Dickinson Co.
Craver-Dickinson Seed Co.
Farmer Seed & Nursery Co.
Funk Bros. Seed Co.
Hamilton Seed & Coal Co.
The Chas. C. Hart Seed Co.
Holmes Seed Co.
Kelly Seed Co.
F. Lagomarsino & Sons
Louisville Seed Co.
The J. Chas. McCullough
Seed Co.
Northrup, King & Co., Mpls.
The Page Seed Co.
The Philadelphia Seed Co.,
Inc.
Purcell Seed Co. Inc.
Purcell Seed Co.
Russell-Heckle Seed Co.
Wm. G. Scarlett & Co.
Walter S. Schell, Inc.
Shultz Seed Co., Inc.
The Stanford Seed Co.
Stollers Seed House
Twin City Seed Co.
Owen T. Watts
F. H. Woodruff & Sons, Inc.
SAGRAIN
Corneli Seed Co.

F. H. Woodruff & Sons, Inc
SAGRAIN
Corneli Seed Co.
R. E. Lambert & Sons
Robt. Nicholson Seed Co.
SEED GRAINS
The Belt Seed Co.
The Bowman Seed Co.
Cargill, Inc.
Arthur R. Cone
Condon Bros., Seedsmen
Corneli Seed Co.
Craver-Dickinson Seed Co.
The Albert Dickinson Co.
J. L. Donley & Bro.
Funk Bros. Seed Co.
Globe Seed & Feed Co.
Hamilton Seed & Coal Co.
Hamilton Seed Co.
Edgar F. Hurff Co.
Kelly Seed Co.
F. Lagomarsino & Sons
R. E. Lambert & Sons
Louisville Seed Co.
Magill & Co.
Ed. F. Mangelsdorf & Bro.,
Inc.
McCabe Bros. Grain Co., Lte
McCabe Bros. Grain Co., Lte

Magill & Co.
Ed. F. Mangelsdorf & Bro.,
Inc.
McCabe Bros. Grain Co., Ltd.
The J. Chas. McCullough
Seed Co.
Montana Seed Co.
The Nebraska Seed Co.
Northrup, King & Co., Mpls.
The O & M Seed Co.
L. L. Olds Seed Co.
Ouren Seed Co.
The Page Seed Co.
Peppard Seed Co.
The Philadelphia Seed Co.,
Inc.
Purcell Seed Co.
Riemers' Farms
Ross Seed Co., Inc.
Rudy-Patrick Seed Co.
Russell-Heckle Seed Co.
Walter S. Schell, Inc.
Sedgwick Alfalfa Mills
Shuler & Smoak
Shultz Seed Co., Inc.
Snelson Seed Co.,
J. H. Speers & Co., Ltd.
The Stanford Seed Co.
Stollers Seed House
Tracy & Son Farms
Twin City Seed Co.
Owen T. Watts
T. W. Wood & Sons
F. H. Woodruff & Sons, Inc.
SERADELLA
Durvea Seed Co., Inc.

SERADELLA Duryea Seed Co., Inc. Julius Loewith, Inc. SESBANIA

SESBANIA
Capital Fuel, Feed & Seed Co.
Ferry-Morse Seed Co.
R. E. Lambert & Sons
Julius Loewith, Inc.
Northrup, King & Co.
(Bomberger Div.)
Simpson Nursery Co.
Snelson Seed Co.
T. W. Wood & Sons
F. H. Woodruff & Sons, Inc.
Yuma Co. Farmers Mktg.
Assn.

SLENDER WHEAT GRASS
Blue Mountain Seed Growers

Assn.
Cargill, Inc.
Corneli Seed Co.
Albert Dickinson Co.
Farmers Union Grain & Supply Co. F. Lagomarsino & Sons Magill & Co.

Ed. F. Mangelsdorf & Bro.,

Ed. F. Mangelsdorf & Bro.,
Inc.
McCabe Bros. Grain Co., Ltd.
The J. Chas. McCullough
Seed Co.
Nebraska Seed Co.
Newday Seeds, Inc.
Steele, Briggs Seed Co., Ltd.
Geo. P. Sexauer & Son
Stollers Seed House
Valker-Christensen Co.
SORGHUMS
The Barteldes Seed Co.
The Belt Seed Co.
The Belt Seed Co.
Co. S. Brent Seed Co.
Capital Fuel, Feed & Seed Co.
Cargill, Inc.
Condon Bros., Seedsmen
Corneli Seed Co.
The Albert Dickinson Co.
Ferry-Morse Seed Co.
Griswold Seed & Nursery Co.
Hamilton Seed & Coal Co.
Holmes Seed Co.
Kelly Seed Co.
F. Lagomarsino & Sons
R. E. Lambert & Sons
Law, Somner Pty., Ltd.
Ed. F. Mangelsdorf & Bro.,
Inc.
The J. Chas. McCullough

Ed. F. Mangelsdorf & Bro.,
Inc.
The J. Chas. McCullough
Seed Co.
Northrup, King & Co.,
(Bomberger Div.)
Robt. Nicholson Seed Co.
L. L. Olds Seed Co.
Ouren Seed Co.
Peppard Seed Co.
The Philadelphia Seed Co.,
Inc.
Inc.
Purcell Seed Co.
Rusy-Patrick Seed Co.
Rudy-Patrick Seed Co.
Russell-Heckle Seed Co.
Russell-Heckle Seed Co.
Walter S. Schell, Inc.
Sedgwick Alfalfa Mills
Geo. P. Sexauer & Son
F. F. Smith & Co., Inc.
Snelson Seed Co.
The Stanford Seed Co.
Stollers Seed House
Twin City Seed Co.
Valker-Christensen Co.
T. W. Wood & Sons
F. H. Woodruff & Sons, Inc.
SOYBEANS
The Ackerman Co.
Hijos de S. V. Bellotti
The Belt Seed Co.
N. Bonahoom Seed Co.
C. S. Brent Seed Co.
Robert Buist Company
Cargill, Inc.
Arthur R. Cone
Condon Bros., Seedsmen
Corneli Seed Co.
The Albert Dickinson Co.
J. L. Donley & Bro.
Duryea Seed Co.
The Albert Dickinson Co.
J. L. Donley & Bro.
Duryea Seed Co.
Griscom & Co., Inc.
Griswold Seed & Nursery Co.
Hamilton Seed & Co.
Griscom & Co.
Griscom & Co.
Griscom & Co.
Lagomarsino & Sons
R. E. Lambert & Sons
R. E. Lambert & Sons
D. Landreth Seed Co.
Geo. Keller & Sons
Kelly Seed Co.
Julius Loewith, Inc.
Louisville Seed Co.
Julius Loewith, Inc.
Louisville Seed Co.
Charles R. Moore
National Seed Co.
Charles R. Moore
National Seed Co.
The Nebraska Seed Co.
Charles R. Moore
National Seed Co.
The Nebraska Seed Co.
The Philadelphia Seed Co.

Inc.
Prunty Seed & Grain Co.
Pruncell Seed Co.
Riemers' Farms
Ross Seed Co.
Rudy-Patrick Seed Co.
Rudy-Patrick Seed Co.
Wm. G. Scarlett & Co.
Walter S. Schell, Inc.
J. M. Schultz Seed Co.
O. M. Scott & Sons Co.
Seaboard Seed Co.

Geo, P. Sexauer & Son Schuler & Smoak Shultz Seed Co., Inc. Snelson Seed Co. Sommer Bros. Seed Co. The Stanford Seed Co. Stollers Seed House Twin City Seed Co. Vaughan's Seed Store Owen T. Watts T. W. Wood & Sons F. H. Woodruff & Sons, Inc. Young & Conway SPURRY Duryea Seed Co., Inc.

SPURKY
Duryea Seed Co., Inc.
Julius Loewith, Inc.
Stollers Seed House
SUDAN GRASS

Stollers Seed House

SUDAN GRASS

The Ackerman Co.
The Belt Seed Co.
N. Bonahoom Seed Co.
The Bowman Seed Co.
The Bowman Seed Co.
The Bowman Seed Co.
The Barteldes Seed Co.
Robert Buist Co.
C. S. Brent Seed Co.
The Albert-Dickinson Co.
Capital Fuel, Feed & Seed
Co.
Cargill, Inc.
Arthur R. Cone
Corneli Seed Co.
Craver-Dickinson Seed Co.
Dakota Improved Seed Co.
J. L. Donley & Bro.
Duryea Seed Co., Inc.
Leslie Edgerton
Ferry-Morse Seed Co.
Griswold Seed & Nursery Co.
Hamilton Seed & Coal Co.
The Chas. C. Hart Seed Co.
Holmes Seed Co.
Jenks-White Seed Co.
Geo. Keller & Sons
Kelly Seed Co.
F. Lagomarsino & Sons
R. E. Lambert & Sons
D. Landreth Seed Co.
Law, Somner Pty., Ltd.
The Chas. H. Lilly Co.
Julius Loewith, Inc.
Louisville Seed Co.
Ed. F. Mangelsdorf & Bro.,
Inc.
The J. Chas. McCullough Seed

The Chas. H. Lilly Co.
Julius Loewith, Inc.
Louisville Seed Co.
Ed. F. Mangelsdorf & Bro.,
Inc.
The J. Chas. McCullough Seed
Co.
Charles R. Moore
National Seed Co., Inc.
The Nebraska Seed Co.
Robt. Nicholson Seed Co.
Northrup, King & Co. (Bomberger Div.)
Northwestern Seed Co.
L. L. Olds Seed Co.
Ouren Seed Co.
The Page Seed Co.
Peppard Seed Co.
The Philadelphia Seed Co.
The Philadelphia Seed Co.
I. L. Radwaner Seed Co.
I. L. Radwaner Seed Co.
I. L. Radwaner Seed Co.
Russell-Heckle Seed Co.
Kunsell-Heckle Seed Co.
Russell-Heckle Seed Co.
Wm. G. Scarlett & Co.
Walter S. Schell, Inc.
J. M. Schultz Seed Co.
Seaboard Seed Co.
The Stanford Seed Co.
The Stanford Seed Co.
The Stanford Seed Co.
Valker-Christensen Co.

SUNFLOWER
Hijos de S. V. Bellotti
The Belt Seed Co.
The Bowman Seed Co.
Robert Buist Co.
Arthur R. Cone
Corneli Seed Co.
The Albert Dickinson Co.
J. L. Donley & Bro.
Duryea Seed Co., Inc.
Ferry-Morse Seed Co.
Hamilton Seed & Coal Co.
The Chas. C. Hart Seed Co.
Kelly Seed Co.
F. Lagomarsino & Sons
D. Landreth Seed Co.
Julius Loewith, Inc.
Ed. F. Mangelsdorf & Bro.,
Inc. SUNFLOWER

The J. Chas. McCullough
Seed Co.
Chas. R. Moore
Robt. Nicholson Seed Co.
Northrup, King & Co.
(Bomberger Div.)
Northrup, King & Co., Mpls.
L. L. Olds Seed Co.
Ouren Seed Co.
The Page Seed Co.
Paramount Seed Co.
The Philadelphia Seed Co.,
Inc.
Prunty Seed & Grain Co. Inc.
Prunty Seed & Grain Co.
Purcell Seed Co., Inc.
Rudy-Patrick Seed Co., Inc.
Rudy-Patrick Seed Co.
Russell-Heckle Seed Co.
Wm. G. Scarlett & Co.
Walter S. Schell, Inc.
Shultz Seed Co., Inc.
F. F. Smith & Co., Inc.
F. F. Smith & Co., Inc.
Snelson Seed Co.
Transcontinental Seed, Inc.
Twin City Seed Co.
T. W. Wood & Sons
F. H. Woodruff & Sons, Inc.
THISTLE
Cornell Seed Co.

THISTLE
Corneli Seed Co.
Duryea Seed Co., Inc.
Chas. H. Lilly Co.
Ed. F. Mangelsdorf & Bro.,
Inc.

Inc.
The J. Chas. McCullough
Seed Co.
Robt. Nicholson Seed Co.
Wm. G. Scarlett & Co.

Wm. G. Scarlett & Co.

TIMOTHY

The Ackerman Co.
The Barteldes Seed Co.
The Belt Seed Co.
The Bowman Seed Co.
The Bowman Seed Co.
C. S. Brent Seed Co.
Robt. Buist Co.
Cargill, Inc.
Roscoe J. Carl & Son
Arthur R. Cone
Condon Bros., Seedsmen
Corneli Seed Co.
Traver-Dickinson Seed Co.
Davenport Seed Co.
The Albert Dickinson Co.
J. L. Donley & Bro.
Duryea Seed Co., Inc.
Leslie Edgerton
A. Ertag, Inc.
Ferry-Morse Seed Co.
Funk Bros. Seed Co.
Ging & Co.
Goldberg Seed & Feed Co.
Hamilton Seed & Coal Co.
The Chas. C. Hart Seed Co.
Henry Hirsch & Sons, Inc.
Holmes Seed Co.
Edgar F. Hurff Co.
International Seed, Inc.
Jenks-White Seed Co.
Geo. Keller & Sons
Kelly Seed Co.
Land O'Lakes Creameries.
Inc.
The Chas. H. Lilly Co.
Illius Loewith Inc. TIMOTHY

D. Landreth Seed Co.
Land O'Lakes Creameries.
Inc.
The Chas. H. Lilly Co.
Julius Loewith, Inc.
Louisville Seed Co.
Magill & Co.
Ed. F. Mangelsdorf & Bro.,
Inc.
H. J. Mayer
McCabe Bros. Grain Co., Ltd.
The J. Chas. McCullough Seed
Co.
Charles R. Moore
National Seed Co., Inc.
The Nebraska Seed Co.
Newday Seeds, Inc.
Northern Field Seed Co.
Northern Field Seed Co.
Northrup, King & Co.,
(Bomberger Div.)
Northwestern Seed Growers,
Inc.
L. L. Olds Seed Co.

Northwestern Seed Growers,
Inc.
L. L. Olds Seed Co.
The O. & M. Seed Co.
Ouren Seed Co.
The Page Seed Co.
Peppard Seed Co.
The Philadelphia Seed Co.
Inc.
Prunty Seed & Capin Co.

Inc.
Prunty Seed & Grain Co.
Prunty Seed Co.
I. L. Radwaner Seed Co., Inc.
Ross Seed Co.
Rudy-Patrick Seed Co.
Russell-Heckle Seed Co.
Wm. G. Scarlett & Co.
Walter S. Schell, Inc.
J. M. Schultz Seed Co.
O. M. Scott & Sons Co.
Seaboard Seed Co.
Geo. P. Sexauer & Son
Shultz Seed Co., Inc.
Sommer Bros. Seed Co.
The Stanford Seed Co.

Stollers Seed House
Transcontinental Seed, Inc.
Twin City Seed Co.
Vaughan's Seed Store
Owen T. Watts
T. W. Wood & Sons
F. H. Woodruff & Sons, Inc.
Wright, Stephenson & Coy,
Lid.
Young & Conway
TOBACCO SEED
C. S. Brent Seed Co.
Robt. Buist Co.
The Bowman Seed Co.
Corneli Seed Co.
Ferry-Morse Seed Co.
Ferry-Morse Seed Co.
Julius Loewith, Inc.
The J. Chas. McCullough Seed
Co.
L. L. Olds Seed Co.
Shuler & Smooth

The J. Chas. McCullough Seed Co.
L. L. Olds Seed Co.
Shuler & Smoak
J. P. Snapp & Son
T. W. Wood & Sons
TREFOIL—BIRDSFOOT
The Belt Seed Co.
Arthur R. Cone
Duryea Seed Co., Inc.
A. Ertag, Inc.
Julius Loewith, Inc.
Ed. F. Mangelsdorf & Bro.,
Inc.
Northrup. King & Co.

Ed. F. Mangelsdorf & Bro., Inc.
Northrup, King & Co.
(Bomberger Division)
Russell-Heckle Seed Co.
Snelson Seed Co.
Transcontinental Seed, Inc.
F. H. Woodruff & Sons, Inc.
TREFOIL—YELLOW
The Belt Seed Co.
C. S. Brent Seed Co.
Arthur R. Cone
Craver-Dickinson Seed Co.
Duryea Seed Co, Inc.
A. Ertag, Inc.
International Seed, Inc.
Jenks-White Seed Co.
R. E. Lambert & Sons
Julius Loewith, Inc.
Ed. F. Mangelsdorf & Bro.,
Inc.

K. E. Lambert & Sons
Julius Loewith, Inc.
Ed. F. Mangelsdorf & Bro
Inc.
H. J. Mayer
Robt. Nicholson Seed Co.
Northrup, King &Co.
(Bomberger Division).
Russell-Heckle Seed Co.
Snelson Seed Co.
The Stanford Seed Co.
Transcontinental Seed, Inc.
VELVET BEANS
Corneli Seed Co.
R. E. Lambert & Sons
Robt. Nicholson Seed Co.
Russell-Heckle Seed Co.
Shuler & Smoak

R. E. Lambert & Sons
Robt. Nicholson Seed Co.
Russell-Heckle Seed Co.
Shuler & Smoak
Snelson Seed Co.
T. W. Wood & Sons
VETCH—AUGUSTA
Duryea Seed Co., Inc.
F. Lagomarsino & Sons
R. E. Lambert & Sons
Simpson Nursery Co.
VETCH—HAIRY
OR WINTER
The Belt Seed Co.
C. S. Brent Seed Co.
Robt. Buist Co.
Capital Fuel, Feed & Seed Co.
Arthur R. Cone
Corneli Seed Co.
Craver-Dickinson Seed Co.
The Albert Dickinson Co.
J. L. Donley & Bro.
Duryea Seed Co., Inc.
Ferry-Morse Seed Co.
Then Chas. C. Hart Seed Co.
Henry Hirsch & Sons
Holmes Seed Co.
International Seed, Inc.
Jenks-White Seed Co.
Kelly Seed Co.
F. Lagomarsino & Sons
R. E. Lambert & Sons
Leckenby Seed Co.
Lewis Seed Co.
Ed. F. Mangelsdorf & Bro.
Inc.
The J. Chas. McCullough
Seed Co. Louisville Seed Co.
Ed. F. Mangelsdorf & Bro.
Inc.
The J. Chas. McCullough
Seed Co.
Chas. R. Moore
National Seed Co., Inc.
Robt. Nicholson Seed Co.
Northrup, King & Co.
(Bomberger Div.)
Northrup, King & Co., Mpls.
L. L. Olds Seed Co.
The Page Seed Co.
Paramount Seed Co.
The Philadelphia Seed Co., Inc. I. L. Radwaner Seed Co., Inc.
Ross Seed Co., Inc.
Rudy-Patrick Seed Co.
Russell-Heckle Seed Co.
Wm. G. Scarlett & Co.
Walter S. Schell, Inc.
O. M. Scott & Sons Co.
Seaboard Seed Co.
F. F. Smith & Co., Inc.
Snelson Seed Co.
The Stanford Seed Co.
Stollers Seed House
Transcontinental Seed, Inc.
Twin City Seed Co.
T. W. Wood & Sons
F. H. Woodruff & Sons, Inc.
VETCH—SPRING OR
COMMON

COMMON
The Belt Seed Co.
Robt. Buist Co.
Capital Fuel, Feed & Seed
Co.

Robt. Buist Co.
Capital Fuel, Feed & Seed
Co.
Arthur R. Cone
Corneli Seed Co.
Craver-Dickinson Seed Co.
The Albert Dickinson Seed
Co.
J. L. Donley & Bro.
Duryea Seed Co., Inc.
Ferry-Morse Seed Co.
Funk Bros. Seed Co.
The Chas. C. Hart Seed Co.
Henry Hirsch & Sons
Holmes Seed Co.
International Seed, Inc.
Jenks-White Seed Co.
H. C. King & Sons, Inc.
F. Lagomarsino & Sons
R. E. Lambert & Sons
Leckenby Seed Co.
The Chas. H. Lilly Co.
Julius Loewith, Inc.
Louisville Seed Co.
Ed. F. Mangelsdorf & Bro.,
Inc.
The J Chas McCullough Seed

Ed. F. Mangelsdorf & Bro., Inc.
Inc.
The J. Chas. McCullough Seed Co.
Charles R. Moore
National Seed Co.
Robt. Nicholson Seed Co.
Northrup, King & Co., Mpls.
Northrup, King & Co.
(Bomberger Div.)
L. L. Olds Seed Co.
The Page Seed Co.
Paramount Seed Co.
The Philadelphia Seed Co., Inc.

The Philadelphia Seed Co., Inc.
Inc.
I. L. Radwaner Seed Co., Inc.
Ross Seed Co.
Rudy-Patrick Seed Co.
Wissell-Heckle Seed Co.
Wm. G. Scarlett & Co.
Wm. G. Scarlett & Co.
Walter S. Schell, Inc.
O. M. Scott & Sons Co.
Seaboard Seed Co.
The Stanford Seed Co.
Stollers Seed House
Transcontinental Seed, Inc.
Twin City Seed Co.
T. W. Wood & Sons
F. H. Woodruff & Sons, Inc.
VETCH—PANONICA
The Belt Seed Co.
Arthur R. Cone
Corneli Seed Co.
The Albert Dickinson Seed Co.
The Albert Dickinson Seed Co.
J. L. Donley & Bro.
Duryea Seed Co., Inc.
Ferry-Morse Seed Co.
Funk Bros. Seed Co.
The Chas. C. Hart Seed Co.
Henry Hirsch & Sons
Holmes Seed Co.
International Seed, Inc.
Jenks-White Seed Co.
Inc.
Lexemby Seed Co.
The Charles H. Lilly Co.
Julius Loewith, Inc.
Louisville Seed Co.
Ed. F. Mangelsdorf & Bro.,
Inc.
Charles R. Moore
National Seed Co.
Robt. Nicholson Seed Co.
Northrup, King & Co. (Bomberger Div.)
Northrup, King & Co., Mpls.
L. L. Olds Seed Co.
The Philadelphia Seed Co.
The Philadelphia Seed Co.
Rudy-Patrick Seed Co.
Rudy-Patrick Seed Co.
Rudy-Patrick Seed Co.
Rudy-Patrick Seed Co.
Seaboard Seed Co.
The Stanford Seed Co.
Stollers Seed House

Transcontinental Seed, Inc.
Twin City Seed Co.
T. W. Wood & Sons
F. H. Woodruff & Sons, Inc.
WHEAT GRASS
The Belt Seed Co.
Blue Mt. Seed Growers Assn.
The Bowman Seed Co.
Cargill, Inc.
Corneli Seed Co.
Dakota Improved Seed Co.
Duryea Seed Co., Inc.
Farmers Union Grain & Supply Co. Duryea Seed Co., Inc.
Farmers Union Grain & Supply Co.
Griswold Seed & Nursery Co.
The Chas. C. Hart Seed Co.
Interstate Seed & Grain Co.
F. Lagomarsino & Sons
Lakin Seed Co.
The Chas. H. Lilly Co.
Julius Loewith, Inc.
Magill & Co.
Ed. F. Mangelsdorf & Bro.
Inc.
McCabe Bros. Grain Co., Ltd.
The J. Chas. McCullough
Seed Co.
Montana Seed Co.
Montana Seed Co.
Newday Seeds, Inc.
Northern Canadian Seed
Sales
Ouren Seed Co.
William G. Scarlett & Co.
Walter S. Schell, Inc.
J. H. Speers & Co., Ltd.
The Stanford Seed Co.
Sollers Seed House
Twin City Seed Co.
F. H. Woodruff & Sons, Inc.
YARROW
The Belt Seed Co.
Duryea Seed Co., Inc.
Julius Loewith, Inc.
The J. Chas. McCullough
Seed Co.
Corneli Seed Co.
Corneli Seed Co.
Corneli Seed Co.
Lucker Christensen Co.
The J. Chas. McCullough
Seed Co.
Chas. R. Moore
A. S. Paterson & Coy, Ltd.
I. L. Radwaner Seed Co., Inc.
Wright, Stephenson & Coy,
Ltd.

Wholesale Garden

ARTICHOKE

Associated Seed Growers, Inc.
The Barteldes Seed Co.
Robt. Buist Co.
Comstock, Ferre & Co.
Comstock, Ferre & Co.
Condon Bros., Seedsmen
Corneli Seed Co., (Jerusalem)
Ferry-Morse Seed Co.
The Chas. C. Hart Seed Co.
F. Lagomarsino & Sons
D. Landreth Seed Co.
Charles R. Moore
The Nebraska Seed Co.
Robt. Nicholson Seed Co.
L. L. Olds Seed Co.
Geo. R. Pedrick & Sons
I. L. Radwaner Seed Co., Inc.
Stollers Seed House
U. S. Seed Co.
T. W. Wood & Sons
F. H. Woodruff & Sons, Inc.
Zwaan & Van der Molen
ASPARAGUS
Associated Seed Growers,
Inc.
The Barteldes Seed Co. Associated Seed Growers,

ASPARAGUS
Associated Seed Growers, Inc.
The Barteldes Seed Co.
Buckham Denholm & Holden Seed Co.
Robt. Buist Co.
Burgess Seed & Plant Co.
W. Atlee Burpee Co.
Comstock, Ferre & Co.
Comothon Bros., Seedsmen
Corneli Seed Co.
Ferry-Morse Seed Co.
The Chas. C. Hart Seed Co.
Holmes Seed Co.
Edgar F. Hurff Co.
Kelly Seed Co.
F. Lagomarsino & Sons
D. Landreth Seed Co.
The J. Chas. McCullough
Seed Co.
Charles R. Moore
The Nebraska Seed Co.
Robt. Nicholson Seed Co.
L. L. Olds Seed Co.
Geo. R. Pedrick & Sons
I. L. Radwaner Seed Co., Inc.
Walter S. Schell, Inc.
Stollers Seed House
U. S. Seed Co.
Vaughan's Seed Store
T. W. Wood & Sons
F. H. Woodruff & Sons, Inc.

BEANS—BUSH

BEANS—BUSH

Associated Seed Growers,
Inc.
The Barteldes Seed Co.
Hijos de S. V. Bellotti
C. S. Brent Seed Co.
Hijos de S. V. Bellotti
C. S. Brent Seed Co.
The Bowman Seed Co.
Alfred J. Brown Seed Co.
Burgess Seed & Plant Co.
Burgess Seed & Plant Co.
W. Atlee Burpee Co.
Burrell Seeds, Inc.
Comstock, Ferre & Co.
Arthur R. Cone
Condon Bros., Seedsmen
Corneli Seed Co.
Ferry-Morse Seed Co.
Filer Seed Co.
Hamilton Seed & Coal Co.
The Chas. C. Hart Seed Co.
Holmes Seed Co.
Kelly Seed Co.
E. Lagomarsino & Sons
D. Landreth Seed Co.
Law, Somner Pty., Ltd.
McCrea Seed Co., Inc.
The J. Chas. McCullough
Seed Co.
Mark Means Co.
Michael-Leonard Co.
Charles R. Moore
The Nebraska Seed Co.
Northrup, King & Co.
L. L. Olds Seed Co.
Geo. R. Pedrick & Sons
I. L. Radwaner Seed Co.
Rudy-Patrick Seed Co.
Rudy-Patrick Seed Co.
Stollers Seed House
U. S. Seed Co.
Stollers Seed House
U. S. Seed Co.
Washburn-Wilson Seed Co.
Max F. Wilhelmi, Seedsman
T. W. Wood & Sons
F. H. Woodruff & Sons, Inc.
BEANS—FAVA
Robt. Buist Co.
W. Atlee Burpee Co. Associated Seed Growers, BEANS—FAVA

BEANS—FAVA
Robt. Buist Co.
W. Atlee Burpee Co.
Comstock, Ferre & Co.
Corneli Seed Co.
Kelly Seed Co.
F. Lagomarsino & Sons
Chas. H. Lilly Co.
McCrea Seed Co., Inc.
Michael-Leonard Co.
Northrup, King & Co.
Stollers Seed House
U. S. Seed Co.
Zwaan & Van der Molen
BEANS—HORSE
Comstock, Ferre & Co.

Comstock, Ferre & Co. Corneli Seed Co. Kelly Seed Co. Kelly Seed Co.
F. Lagomarsino & Sons
Law, Somner Pty., Ltd.
The Chas. H. Lilly Co.
Northrup, King & Co.
A. S. Paterson & Coy, Ltd.
I. L. Radwaner Seed Co.
Rogers Bros. Seed Co.
Stollers Seed House
F. H. Woodruff & Sons, Inc.
Wright, Stephenson & Coy,
Ltd.

BEANS-LIMA (Bush and Pole)

(Bush and Pole)
Associated Seed Growers, Inc.
The Barteldes Seed Co.
Hijos de S. V. Bellotti
The Bowman Seed Co.
C. S. Brent Seed Co.
Alfred J. Brown Seed Co.
Alfred J. Brown Seed Co.
Robt. Buist Company
W. Atlee Burpee Co.
Comstock, Ferre & Co.
Condon Bros., Seedsmen
Corneli Seed Co.
Crosman Seed Corp.
Ferry-Morse Seed Co.
Hamilton Seed & Coal Co.
The Chas. C. Hart Seed Co.
Holmes Seed Co.
Kelly Seed Co.
F. Lagomarsino & Sons
D. Landreth Seed Co.
The Chas. H. Lilly Co.
McCrea Seed Co., Inc.
The J. Chas. McCullough
Seed Co.
Michael-Leonard Co.
Charles R. Moore
John Mosbell Co.
The Nebraska Seed Co.
Robt. Nicholson Seed Co.
L. L. Olds Seed Co.
Geo. R. Pedrick & Sons
I. L. Radwaner Seed Co.
Rogers Bros. Seed Co. Associated Seed Growers,

Rudy-Patrick Seed Co.
Russell-Heckle Seed Co.
Walter S. Schell, Inc.
Sherwood Seed Co.
Stollers Seed House
U. S. Seed Co.
Vaughan's Seed Store
Max F. Wilhelmi, Seedsman
T. W. Wood Sons
F. H. Woodruff & Sons, Inc.
S. D. Woodruff & Sons, Inc.

T. W. Wood Sons
F. H. Woodruff & Sons, Inc.
S. D. Woodruff & Sons, Inc.
BEANS—POLE
The Barteldes Seed Co.
The Bowman Seed Co.
Hijos de S. V. Bellotti
C. S. Brent Seed Co.
Alfred J. Brown Seed Co.
Alfred J. Brown Seed Co.
Robt. Buist Company
W. Atlee Burpee Co.
Comstock, Ferre & Co.
Condon Bros., Seedsmen
Corneli Seed Co.
Crosman Seed Corp.
Ferry-Morse Seed Co.
Hamilton Seed & Coal Co.
The Chas. C. Hart Seed Co.
Holmes Seed Co.
Kelly Seed Co.
F. Lagomarsino & Sons
D. Landreth Seed Co.
Law, Somner Pty., Ltd.
McCrea Seed Co., Inc.
The J. Chas. McCullough
Seed Co.
Michael-Leonard Co.
Charles R. Moore
The Nebraska Seed Co.
Robt. Nicholson Seed Co.
Northrup, King & Co.
L. L. Olds Seed Co.
Ceo. R. Pedrick & Sons
I. L. Radwaner Seed Co.
Rudy-Patrick Seed Co.
Rudy-Patrick Seed Co.
Rudy-Patrick Seed Co.
Stollers Seed House
U. S. Seed Co.
Vaughan's Seed Store
Washburn-Wilson Seed Co.
Max F. Wilhelmi, Seedsman
T. W. Wood & Sons
F. H. Woodruff & Sons, Inc.
BEANS—RUNNER
Barteldes Seed Co.

BEANS-RUNNER BEANS—RUNNER
Barteldes Seed Co.
W. Atlee Burpee Co.
C. S. Brent Seed Co.
Comstock, Ferre & Co.
Corneli Seed Co.
Ferry-Morse Seed Co.
H. C. King & Sons
F. Lagomarsino & Sons
Law, Somner Pty., Ltd.
Chas. H. Lilly Co.
McCrea Seed Co.. Inc.
Northrup, King & Co.
Shuler & Smoak
Max F. Wilhelmi, Seedsman
T. W. Wood & Sons

BEET

Associated Seed Growers, Inc.
The Barteldes Seed Co.
Hijos de S. V. Bellotti
The Bowman Seed Co.
J. A. Boyce Co.
Braslan Seed Growers Co.,
Inc. J. A. Boyce Co.
Braslan Seed Growers Co.,
Inc.
C. S. Brent Seed Co.
Alfred J. Brown Seed Co.
Robert Buist Company
W. Atlee Burpee Co.
Alf. Christianson
Comstock, Ferre & Co.
Arthur R. Cone
Condon Bros., Seedsmen
Corneli Seed Company
Crosman Seed Corp.
Ferry-Morse Seed Co.
Griscom & Co., Inc.
Hamilton Seed & Coal Co.
The Chas. C. Hart Seed Co.
Holmes Seed Co.
Kelly Seed Co.
Norval E. Kirby
F. Lagomarsino & Sons
D. Landreth Seed Co.
Law, Somner Pty., Ltd.
Leckenby Seed Co.
The Chas. H. Lilly Co.
J. Chas. McCullough Seed Co.
Charles R. Moore
John Mosbell Co. (also Sugar
Beets)
The Nebraska Seed Co. John Mosbell Co. (also Sugar Beets)
The Nebraska Seed Co.
Robt. Nicholson Seed Co.
Northrup, King & Co.
L. L. Olds Seed Co.
The Page Seed Co.
Paramount Seed Co.
Geo. R. Pedrick & Sons
Pieters-Wheeler Seed Co.
I. L. Radwaner Seed Co., Inc.
Waldo Rohnert Co.
Rudy-Patrick Seed Co.
Russell-Heckle Seed Co.

Walter S. Schell, Inc. Sherwood Seed Co. Peter Sluis Peter Sluis
Standard Seed Farms Co.
Stollers Seed House
U. S. Seed Co.
Vaughan's Seed Store
T. W. Wood & Sons
F. H. Woodruff & Sons, Inc.
S. D. Woodruff & Sons, Inc.
Zwaan & Van der Molen
BROCCOLI
Associated Seed Growers, Inc

BROCCOLI
Associated Seed Growers, Inc.
The Barteldes Seed Co.
Hijos de S. V. Bellotti
J. A. Boyce Co.
Robert Buist Company
Comstock, Ferre & Co.
Condon Bros., Seedsmen
Corneli Seed Company
Crosman Seed Corp.
Ferry-Morse Seed Co.
The Chas. C. Hart Seed Co.
Herbst Brothers
Holmes Seed Co.
Kelly Seed Co.
Norval E. Kirby
F. Lagomarsino & Sons
D. Landreth Seed Co.
J. M. Lupton & Son
The J. Chas. McCullough Seed
Co.
John Mosbell Co.
Charles P. Moore John Mosbell Co.

John Mosbell Co.
Charles R. Moore
The Nebraska Seed Co.
Robt. Nicholson Seed Co.
L. L. Olds Seed Co.
Geo. R. Pedrick & Sons
I. L. Radwaner Seed Co., Inc.
Russell-Heckle Seed Co.
Walter S. Schell, Inc.
Stollers Seed House
U. S. Seed Co.
Vaughan's Seed Store
T. W. Wood & Sons
F. H. Woodruff & Sons, Inc.
S. D. Woodruff & Sons, Inc.
Zwaan & Van der Molen

BRUSSELS SPROUTS
Associated Seed Grovers, Inc.

BRUSSELS SPROUTS
Associated Seed Growers, Inc.
The Barteldes Seed Co.
J. A. Boyce Co.
Robert Buist Company
Comstock, Ferre & Co.
Condon Bros., Seedsmen
Corneli Seed Co.
Crosman Seed Corp.
Ferry-Morse Seed Co.
Hamilton Seed & Coal Co.
Chas. C. Hart Seed Co.
Herbst Brothers
Holmes Seed Co.
Kelly Seed Co.
Norval E. Kirby
F. Lagomarsino & Sons
D. Landreth Seed Co.
J. M. Lupton & Son
The J. Chas. McCullough Seed
Co.
Chasles P. Maore

The J. Chas. McCullough Seed Co.
Charles R. Moore
John Mosbell Co.
The Nebraska Seed Co.
Robt. Nicholson Seed Co.
L. L. Olds Seed Co.
Geo. R. Pedrick & Sons
I. L. Radwaner Seed Co., Inc.
Russell-Heckle Seed Co.
Walter S. Schell, Inc.
Stollers Seed House
U. S. Seed Co.
Vaughan's Seed Store
T. W. Wood & Sons
F. H. Woodruff & Sons. Inc.
Zwan & Van der Molen

CABBAGE
Associated Seed Growers, Inc.

CABBAGE

Associated Seed Growers, Inc.
The Barteldes Seed Co.
Hijos de S. V. Bellotti
J. A. Boyce Co.
C. S. Brent Seed Co.
Alfred J. Brown Seed Co.
Robert Buist Company
W. Atlee Burpee Co.
Alf Christianson
Comstock, Ferre & Co.
Condon Bros., Seedsmen
Corneli Seed Company
Crosman Seed Corp.
Ferry-Morse Seed Co.
Hamilton Seed & Coal Co.
The Chas. C. Hart Seed Co.
Herbst Bros.
Holmes Seed Co.
Kelly Seed Co.
Norval E. Kirby
F. Lagomarsino & Sons
D. Landreth Seed Co.
Leckenby Seed Co.
The Chas. H. Lilly Co.
J. M. Lupton & Son
The J. Chas. McCullough Seed
Co.
Charles R. Moore

The J. Chas. McCunough Co. Co. Charles R. Moore John Mosbell Co. The Nebraska Seed Co. Robert Nicholson Seed Co. Northrup, King & Co.

L. L. Olds Seed Co.
The Page Seed Co.
Geo. R. Pedrick & Sons
I. L. Radwaner Seed Co., Inc.
Rudy-Patrick Seed Co.
Russell-Heckle Seed Co.
Walter S. Schell, Inc.
Peter Sluis Peter Sluis
Stollers Seed House
U. S. Seed Co.
Vaughan's Seed Store
Wisconsin Cabbage Seed Co.
(Yellows Resistant)
T. W. Wood & Sons
F. H. Woodruff & Sons, Inc.
S. D. Woodruff & Sons, Inc.
Zwaan & Van der Molen
CANTALOUPE
Associated Seed Growers, Inc.

CANTALOUPE

Associated Seed Growers, Inc.
The Barteldes Seed Co.
Hijos de S. V. Bellotti
The Bowman Seed Co.
C. S. Brent Seed Co.
Alfred J. Brown Seed Co.
Robert Buist Company
Burgess Seed & Plant Co.
Burrell Seeds, Inc.
W. Atlee Burpee Co.
Comstock, Ferre & Co.
Condon Bros., Seedsmen
Corneli Seed Company
Crosman Seed Corp.
Ferry-Morse Seed Co.
H. D. Garwood Seed Co.
D. H. Gilbert Seed Co., Inc.
Hamilton Seed & Coal Co.
The Chas. C. Hart Seed Co.
Kelly Seed Co.
H. C. King & Sons
F. Lagomarsino & Sons
D. Landreth Seed Co.
Charles R. Moore
The Nebraska Seed Co.
Cher Page Seed Co.
L. L. Olds Seed Co.
The Page Seed Co.
L. L. Robinson Seed Co.
Ceo. R. Pedrick & Sons
I. L. Radwaner Seed Co.
Russell-Heckle Seed Co.
Russell-Heckle Seed Co.
Walter S. Seed House
U. S. Seed Co.
Vaughan's Seed Store
T. W. Wood & Sons
F. H. Woodruff & Sons, Inc.
CARROT
Associated Seed Gor Wers, Inc.

CARROT
Associated Seed Growers, Inc.
The Barteldes Seed Co.
Hijos de S. V. Bellotti
The Bowman Seed Co.
Braslan Seed Growers Co.,
Inc. The Bowman Seed Co.

Braslan Seed Growers Co.,

Inc.

C. S. Brent Seed Co.

Alfred J. Brown Seed Co.

Robert Buist Company

W. Atlee Burpee Co.

Comstock, Ferre & Co.

Condon Bros., Seedsmen

Corneli Seed Company

Crosman Seed Corp.

Ferry-Morse Seed Co.

Hamilton Seed & Coal Co.

The Chas. C. Hart Seed Co.

Herbst Brothers

Holmes Seed Co.

Kelly Seed Co.

Norval E. Kirby

F. Lagomarsino & Sons

D. Landreth Seed Co.

The Chas. H. Lilly Co.

The J. Chas. McCullough Seed

Co.

Mark Means Co.

The J. Chas. McCullough Seed Co.
Mark Means Co.
Charles R. Moore
John Mosbell Co.
The Nebraska Seed Co.
Robt. Nicholson Seed Co.
Northrup. King & Co.
L. L. Olds Seed Co.
The Page Seed Co.
For Page Seed Co.
Geo. R. Pedrick & Sons
Pieters-Wheeler Seed Co.
I. L. Radwaner Seed Co.
I. L. Radwaner Seed Co.
Rudy-Patrick Seed Co.
Rudy-Patrick Seed Co.
Rudy-Patrick Seed Co.
Seed Co.
The F. Smith & Co., Inc.
Standard Seed Farms Co.
Stollers Seed House
U. S. Seed Co.
Vaughan's Seed Store
T. W. Wood & Sons
F. H. Woodruff & Sons, Inc.
Zwaan & Van der Molen
CAULIFLOWER

CAULIFLOWER Associated Seed Growers, Inc. The Barteldes Seed Co. Hijos de S. V. Bellotti J. A. Boyce Co.
Alfred J. Brown Seed Co.
Robert Buist Company
W. Atlee Burpee Co.
Comstock, Ferre & Co.
Condon Bros., Seedsmen
Corneli Seed Company
Crosman Seed Corp.
Ferry-Morse Seed Co.
Hamilton Seed & Coal Co.
The Chas. C. Hart Seed Co.
Herbst Brothers
Holmes Seed Co.
Kelly Seed Co.
Norval E. Kirby
F. Lagomarsino & Sons
D. Landreth Seed Co.
J. M. Lupton & Son
The J. Chas McCullough Seed
Co.
Charles R. Moore
John Mosbell Co.
The Nebraska Seed Co.
Robt. Nicholson Seed Co.
L. L. Olds Seed Co.
The Page Seed Co.
Geo. R. Pedrick & Sons
I. L. Radwaner Seed Co., Inc.
Walter S. Schell, Inc.
Stollers Seed House
U. S. Seed Co.
Vaughan's Seed Sons
F. H. Woodcuff & Sons, Inc.
Zwaan & Van der Molen

CELERIAC

Zwaan & Van der Molen

CELERIAC

Associated Seed Growers, Inc.
The Barteldes Seed Co.
Robert Buist Company
W. Atlee Burpee Co.
Comstock, Ferre & Co.
Comstock, Ferre & Co.
Condon Bros., Seedsmen
Corneli Seed Company
Crosman Seed Corp.
Ferry-Morse Seed Co.
Hamilton Seed & Coal Co.
The Chas. C. Hart Seed Co.
Herbst Brothers
Holmes Seed Co.
Kelly Seed Co.
Norval E. Kirby
F. Lagomarsino & Sons
D. Landreth Seed Co.
The J. Chas. McCullough Seed
Co.
Charles R. Moore
John Mosbell Co.
The Nebraska Seed Co.
L. L. Olds Seed Co.
Geo. R. Pedrick & Sons
Pieters-Wheeler Seed Co.
I. L. Radwaner Seed Co.
I. L. Radwaner Seed Co.
Waldo Rohnert Co.
Waldo Rohnert Co.
Waldo Rohnert Co.
Vaughan's Seed House
U. S. Seed Co.
Vaughan's Seed Store
T. W. Wood & Sons, Inc.
Zwaan & Van der Molen

CELERY

Associated Seed Growers, Inc.

CELERY

Associated Seed Growers, Inc. The Barteldes Seed Co. Braslan Seed Growers Co., Braslan Seed Growers Co., Inc.
C. S. Brent Seed Co.
Robert Buist Company
W. Atlee Burpee Co.
Comstock, Ferre & Co.
Condon Bros., Seedsmen
Corneli Seed Company
Ferry-Morse Seed Co.
Hamilton Seed & Coal Co.
Chas. C. Hart Seed Co.
Kelly Seed Co.
H. C. King & Sons
F. Lagomarsino & Sons
D. Landreth Seed Co.
The J. Chas. McCullough Seed

The J. Chas. McCullough Seed
Co.
Michael-Leonard Co.
John Mosbell Co.
Nebraska Seed Co.
Robt. Nicholson Seed Co.
Northrup, King & Co.
L. L. Olds Seed Co.
Page Seed Co.
Pieters-Wheeler Seed Co.
I. L. Radwaner Seed Co., Inc.
Waldo Rohnert Co.
Sherwood Seed Co.
Shuler & Smoak
Stollers Seed House
U. S. Seed Co.
Vaughan's Seed Store
T. W. Wood & Sons
F. H. Woodruff & Sons, Inc.
CHICORY

CHICORY

Associated Seed Growers, Inc.
The Barteldes Seed Co.
J. A. Boyce Co.
Robert Buist Co.
Comstock, Ferre & Co.
Condon Bros., Seedsmen
Corneli Seed Co.
Crosman Seed Corp.

Ferry-Morse Seed Co.
The Chas. C. Hart Seed Co.
Herbst Brothers
Holmes Seed Co.
Kelly Seed Co.
Norval E. Kirby
F. Lagomarsino & Sons
D. Landreth Seed Co.
Charles R. Moore
John Mosbell Co.
The Nebraska Seed Co.
L. L. Olds Seed Co.
Geo. R. Pedrick & Sons
I. L. Radwaner Seed Co., Inc.
Waldo Rohnert Co.
Waldo Rohnert Co.
Walter S. Schell, Inc.
Stollers Seed House
U. S. Seed Co.
Vaughan's Seed Store
F. H. Woodruff & Sons, Inc.
Zwaan & Van der Molen

COLLARD

Associated Seed Growers, Inc.

COLLARD

Associated Seed Growers, Inc.
The Barteldes Seed Co.
Robert Buist Company
W. Atlee Burpee Co.
Comstock, Ferre & Co.
Condon Bros., Seedsmen
Corneli Seed Co.
Crosman Seed Corp.
Ferry-Morse Seed Co.
The Chas. C. Hart Seed Co.
Holmes Seed Co.
Kelly Seed Co.
Norval E. Kirby
F. Lagomarsino & Sons
D. Landreth Seed Co.
The J. Chas. McCullough Seed
Co.
Charles R. Moore Charles R. Moore
John Mosbell Co.
The Nebraska Seed Co.
Robt. Nicholson Seed Co.
L. L. Olds Seed Co.
Geo. R. Pedrick & Sons
I. L. Radwaner Seed Co., Inc.
Russell-Heckle Seed Co.
Walter S. Schell, Inc.
U. S. Seed Co.
Vaughan's Seed Store
T. W. Wood & Sons
F. H. Woodruff & Sons, Inc.
Zwan & Van der Molen Charles R. Moore

CORN SALAD

CORN SALAD

Associated Seed Growers, Inc.
The Barteldes Seed Co.
Robert Buist Co.
Comstock, Ferre & Co.
Corneli Seed Co.
Ferry-Morse Seed Co.
Hamilton Seed & Coal Co.
Kelly Seed Co.
Norval E. Kirby
F. Lagomarsino & Sons
D. Landreth Seed Co.
The J. Chas. McCullough Seed
Co.

The J. Chas. Mecanical Co.
Co.
Michael-Leonard Co.
Chas. R. Moore
Nebraska Seed Co.
Northrup, King & Co.
L. L. Olds Seed Co.
U. S. Seed Co.
Vaughan's Seed Store
T. W. Wood & Sons
Zwaan & Van der Molen
CORN—SWEET

CORN—SWEET

Associated Seed Growers, Inc.
The Barteldes Seed Co.
The Bowman Seed Co.
C. S. Brent Seed Co.
Alfred J. Brown Seed Co.
Robert Buist Company
Burgess Seed & Plant Co.
W. Atlee Burpee Co.
C. S. Clark & Sons
Comstock, Ferre & Co.
Arthur R. Cone
Condon Bros., Seedsmen
Corneli Seed Company
Council Bluffs Seed Co.
Crosman Seed Corp.
Farmer Seed & Nursery Co.
Ferry-Morse Seed Co.
Hamilton Seed & Coal Co.
The Chas. C. Hart Seed Co.
Holmes Seed Co.
Kelly Seed Co.
F. Lagomarsino & Sons
D. Landreth Seed Co.
McCabe Bros. Grain Co., Ltd.
The J. Chas. McCullough Seed
Co.
Michael-Leonard Co. CORN-SWEET

Co.
Michael-Leonard Co.
Charles R. Moore
The Nebraska Seed Co.
Robt. Nicholson Seed Co.
Northrup, King & Co.
O & M Seed Co.
L. L. Olds Seed Co.
The Page Seed Co.
Geo. R. Pedrick & Sons
I. L. Radwaner Seed Co., Inc.
J. C. Robinson Seed Co.
Rogers Bros. Seed Co.

Rudy-Patrick Seed Co.
Russell-Heckle Seed Co.
Walter S. Schell, Inc.
Stollers Seed House
U. S. Seed Co.
Vaughan's Seed Store
T. W. Wood & Sons
F. H. Woodruff & Sons, Inc.
S. D. Woodruff & Sons, Inc.
CORN (Hybrid)
Associated Seed Growers, Inc.
The Barteldes Seed Co.
The Bowman Seed Co.
C. S. Brent Seed Co.
Robert Buist Company
W. Atlee Burpee Co.
C. S. Clark & Sons
Condon Bros., Seedsmen
Comstock, Ferre & Co.
Corneli Seed Company
Council Bluffs Seed Co.
Hamilton Seed & Coal Co.
Hamilton Seed & Coal Co.
Chas, C. Hart Seed Co.
Jacques Seed Co.
Kelly Seed Co.
H. C. King & Sons Jacques Seed Co. Kelly Seed Co. H. C. King & Sons F. Lagomarsino & Sons D. Landřeth Seed Co. The J. Chas. McCullough Seed

The J. Chas. McCullough Seed Co.
Michael-Leonard Co.
Chas. R. Moore
Robt. Nicholson Seed Co.
Nebraska Seed Co.
Northrup, King & Co.
O & M Seed Co.
Edgar L. Oakes & Co.
L. L. Olds Seed Co.
Page Seed Co.
J. L. Radwaner Seed Co., Inc.
J. C. Robinson Seed Co.
Stanford Seed Co.
Stanford Seed Co.
Stollers Seed House
U. S. Seed Co.
T. W. Wood & Sons
F. H. Woodruff & Sons, Inc.
CRESS

CRESS

CKESS
Associated Seed Growers, Inc.
The Barteldes Seed Co.
Robert Buist Company
Comstock, Ferre & Co.
Condon Bros., Seedsmen
Corneli Seed Co.
Trechas. C. Hart Seed Co.
The Chas. C. Hart Seed Co.
Holmes Seed Co.
The Chas. C. Hart Seed Co.
Holmes Seed Co.
Norval E. Kirby
F. Lagomarsino & Sons
D. Landreth Seed Co.
Charles R. Moore
John Mosbell Co.
The Nebraska Seed Co.
L. L. Olds Seed Co.
Geo. R. Pedrick & Sons
I. L. Radwaner Seed Co.
I. Radwaner Seed Co.
The Stollers Seed House
U. S. Seed Co.
Vaughan's Seed Store
T. W. Wood & Sons
F. W. Woodruff & Sons, Inc.
Zwaan & Van der Molen

CUCUMBER
Associated Seed Growers, Inc.
The Barteldes Seed Co.
Co. S. Brent Seed Co.
Alfred J. Brown Seed Co.
Robert Buist Company
Burgess Seed & Plant Co.
W. Atlee Burpee Co.
Burrell Seeds, Inc.
Comstock, Ferre & Co.
Arthur R. Cone
Condon Bros., Seedsmen
Corneli Seed Company
Crosman Seed Co.
H. D. Garwood Seed Co.
Hamilton Seed Co.
Hamilton Seed Co.
Kelly Seed Co.
Ferry-Morse Seed Co.
Kelly Seed Co.
Ferry-Morse Seed Co.
Herbst Brothers
Holmes Seed Co.
Kelly Seed Co.
F. Lagomarsino & Sons
D. Landreth Seed Co.
Kelly Seed Co.
F. Lagomarsino & Sons
D. Landreth Seed Co.
Robt. Nicholson Seed Co.
Robt. Nicholson Seed Co.
The Page Seed Co.
The Page Seed Co.
L. L. Olds Seed Co.
The Page Seed Co.
L. L. Olds Seed Co.
The J. C. Robinson Seed Co.
Lawrence Robinson & Sons
Rudy-Patrick Seed Co.
Russell-Heckle Seed Co.
Russell-Heckle Seed Co.

Walter S. Schell, Inc. Starr Seed Co. Stollers Seed House U. S. Seed Co. U. S. Seed Co. Vaughan's Seed Store T. W. Wood & Sens F. H. Woodruff & Sens, Inc. S. D. Woodruff & Sens, Inc.

S. D. Woodruff & Sons, Inc.

DANDELION

Associated Seed Growers, Inc.
The Barteldes Seed Co.
Robert Buist Co.
W. Atlee Burpee Co.
Comstock, Ferre & Co.
Comstock, Ferre & Co.
Comoton Bros., Seedsmen
Corneli Seed Co.
Crosman Seed Corp.
Ferry-Morse Seed Co.
The Chas. C. Hart Seed Co.
Herbst Brothers
Holmes Seed Co.
F. Lagomarsino & Sons
D. Landreth Seed Co.
Charles R. Moore
John Mosbell Co.
The Nebraska Seed Co.
L. L. Olds Seed Co.
Geo. R. Pedrick & Sons
I. L. Radwaner Seed Co., Inc.
Walter S. Schell, Inc.
Stollers Seed House
U. S. Seed Co.
Vaughan's Seed Store
F. H. Woodruff & Sons, Inc.

DILL DANDELION

DILL
Pieters-Wheeler Seed Co.
Waldo Rohnert Co.

Pieters-Wheeler Seed Co.
Waldo Rohnert Co.
EGG PLANT
Associated Seed Growers, Inc.
The Barteldes Seed Co.
Alfred J. Brown Seed Co.
Alfred J. Brown Seed Co.
Alfred J. Brown Seed Co.
Condon Bros., Seedsmen
Corneli Seed Company
W. Atlee Burpee Co.
Comstock, Ferre & Co.
Condon Bros., Seedsmen
Corneli Seed Company
Crosman Seed Corp.
Ferry-Morse Seed Co.
Hamilton Seed & Coal Co.
The Chas. C. Hart Seed Co.
Herbst Brothers
Holmes Seed Co.
Edgar F. Hurff Co.
Kelly Seed Co.
F. Lagomarsino & Sons
D. Landreth Seed Co.
The J. Chas. McCullough
Seed Co.
Charles R. Moore
John Mosbell Co.
The Nebraska Seed Co.
Che Nebraska Seed Co.
The Page Seed Co.
Geo. R. Pedrick & Sons
I. L. Radwaner Seed Co.
The Page Seed Co.
Walter S. Schell, Inc.
J. P. Snapp & Son
Stollers Seed House
U. S. Seed Co.
Vaughan's Seed Store
T. W. Wood & Sons
F. H. Woodruff & Sons, Inc.
S. D. Woodruff & Sons, Inc.
The Barteldes Seed Co.

F. H. Woodruff & Sons, Inc.

ENDIVE

Associated Seed Growers, Inc.
The Barteldes Seed Co.
The Bowman Seed Co.
Robert Buist Company
W. Atlee Burpee Co.
Comstock, Ferre & Co.
Comstock, Ferre & Co.
Comdon Bros. Seedsmen
Corneli Seed Company
Crosman Seed Corp.
Ferry-Morse Seed Co.
Hamilton Seed & Coal Co.
The Chas. C. Hart Seed Co.
Herbst Brothers
Holmes Seed Co.
Kelly Seed Co.
Norval E. Kirby
F. Lagomarsino & Sons
D. Landreth Seed Co.
The J. Chas. McCullough
Seed Co.
Charles R. Moore
John Mosbell Co.
The Nebraska Seed Company
Robert Nicholson Seed Co.
L. L. Olds Seed Co.
Geo. R. Pedrick & Sons
Pieters-Wheeler Seed Co.
I. L. Radwaner Seed Co.
I. L. Radwaner Seed Co.
Standard Seed Farms Co.
Stollers Seed House
U. S. Seed Co.
Vaughan's Seed Store
T. W. Wood & Sons
F. H. Woodruff & Sons, Inc.
Zwaan & Van der Molen

COURD

GOURD

Associated Seed Growers, Inc. The Barteldes Seed Co. Bodger Seeds, Ltd.
Buckman, Denholm & Holden Seed Co. Robert Buist Company Burgess Seed & Plant Co. W. Atlee Burpee Co. Common Bros., Seedsmen Corneli Seed Co. Crosman Seed Corp. Ferry-Morse Seed Co. The Chas. C. Hart Seed Co. The Chas. C. Hart Seed Co. Kelly Seed Co. Kelly Seed Co. F. Lagomarsino & Sons D. Landreth Seed Co. The J. Chas. McCullough Seed Co. Charles R. Moore The Nebraska Seed Company Robt. Nicholson Seed Co. L. L. Olds Seed Co. Geo. R. Pedrick & Sons I. L. Radwaner Seed Co. Lawrence Robinson Seed Co. Vaughan's Seed Store HERBS

HERBS

Associated Seed Growers, Inc. The Barteldes Seed Co. Hijos de S. V. Bellotti Buckman, Denholm & Holden Ine Barteldes Seed Co.
Hijos de S. V. Bellotti
Buckman, Denholm & Holden
Seed Co.
Robert Buist Company
Burrell Seeds, Inc.
Comstock, Ferre & Co.
Condon Bros., Seedsmen
Corneli Seed Co.
Crosman Seed Corp.
Ferry-Morse Seed Co.
Griscom & Co., Inc.
Hamilton Seed & Coal Co.
The Chas. C. Hart Seed Co.
Holmes Seed Co.
Kelly Seed Co.
Kelly Seed Co.
Norval E. Kirby
F. Lagomarsino & Sons
D. Landreth Seed Co.
The J. Chas. McCullough
Seed Co.
Charles R. Moore
John Mosbell Co.
The Nebraska Seed Company
Robt. Nicholson Seed Co.
L. Olds Seed Co.
Geo. R. Pedrick & Sons
Pieters-Wheeler Seed Co.
(Dill only)
L. L. Radwaner Seed Co.
(Inc. Waldo Rohnert Co. (Dill)
Walter S. Schell, Inc.
Standard Seed Farms Co.
(Sweet Basil)
Stollers Seed House
U. S. Seed Co.
Vaughan's Seed Store
T. W. Wood & Sons
F. H. Woodruff & Sons, Inc.
Zwaan & Van der Molen

KALE

KALE

Associated Seed Growers, Inc.
The Barteldes Seed Co.
J. A. Boyce Co.
C. S. Brent Seed Co.
Robert Buist Company
W. Atlee Burpee Co.
Comstock, Ferre & Co.
Condon Bros., Seedsmen
Corneli Seed Co.
Crosman Seed Corp.
Ferry-Morse Seed Co.
Hamilton Seed & Coal Co.
The Chas. C. Hart Seed Co.
Herbst Brothers
Holmes Seed Co.
Kelly Seed Co.
Norval E. Kirby
F. Lagomarsino & Sons
D. Landreth Seed Co.
Leckenby Seed Co.
The Chas. H. Lilly Co.
J. M. Lupton & Son
D. R. Mayo Seed Co.
The J. Chas. McCullough
Seed Co.
Mark Means Co.
Charles R. Moore
John Mosbell Co.
The Nebraska Seed Co.
Robt. Nicholson Seed Co.
L. L. Olds Seed Co.
The Page Seed Co.
Russell-Heckle Seed Co.
Walter S. Schell, Inc.
Peter Sluis
Stollers Seed House
U. S. Seed Co.

Vaughan's Seed Store T. W. Wood & Sons F. H. Woodruff & Sons, Inc. S. D. Woodruff & Sons, Inc. Zwaan & Van der Molen

KOHLRABI

KOHLRABI
Associated Seed Growers, Inc.
The Barteldes Seed Co.
The Bowman Seed Co.
J. A. Boyce Co.
Robert Buist Company
Comstock, Ferre & Co.
Condon Bros., Seedsmen
Corneli Seed Company
Crosman Seed Corp.
Ferry-Morse Seed Co.
Hamilton Seed & Coal Co.
The Chas. C. Hart Seed Co.
Herbst Brothers
Holmes Seed Co. The Chas. C. Hart Seed Co.
Herbst Brothers
Holmes Seed Co.
Kelly Seed Co.
Norval E. Kirby
F. Lagomarsino & Sons
D. Landreth Seed Co.
Leckenby Seed Co.
The Chas. H. Lilly Co.
J. M. Lupton & Son
The J. Chas. McCullough
Seed Co.
Charles R. Moore
John Mosbell Co.
The Nebraska Seed Company
Robt. Nicholson Seed Co.
L. L. Olds Seed Co.
Charles Red Co.
Geo. R. Pedrick & Sons
I. L. Radwaner Seed Co., Inc.
Russell-Heckle Seed Co.
Walter S. Schell, Inc.
U. S. Seed Co.
Vaughan's Seed Store
T. W. Wood & Sons
F. H. Woodruff & Sons. Inc.
Zwaan & Van der Molen

LEEK

Zwaan & Van der Molen

LEEK

Associated Seed Growers, Inc.
The Barteldes Seed Co.
Hijos de S. V. Bellotti
Robert Buist Company
Comstock, Ferre & Co.
Condon Bros., Seedsmen
Corneli Seed Company
Crosman Seed Corp.
Ferry-Morse Seed Co.
Hamilton Seed & Coal Co.
The Chas. C. Hart Seed Co.
Herbst Brothers
Holmes Seed Co.
Kelly Seed Co.
Kelly Seed Co.
Kelly Seed Co.
The J. Chas. McCullough Seed
Co.
Charles R. Moore
John Mosbell Co.
The Page Seed Co.
Faramount Seed Co.
Faramount Seed Co.
Geo. R. Pedrick & Sons
L. L. Radwaner Seed Co.
Walter S. Schell, Inc.
Standard Seed House
U. S. Seed Co.
Vaughan's Seed Store
T. W. Wood & Sons
F. H. Woodruff & Sons, Inc.
Zwaan & Van der Molen

LETTUCE

Associated Seed Growers Inc.

LETTUCE

Associated Seed Growers, Inc. The Barteldes Seed Co. Hijos de S. V. Bellotti The Bowman Seed Co. Braslan Seed Growers Co., The Bowman Seed Co.
Braslan Seed Growers Co.,
Inc.
C. S. Brent Seed Co.
Alfred J. Brown Seed Co.
Robert Buist Company
W. Atlee Burpee Co.
Comstock, Ferre & Co.
Condon Bros., Seedsmen
Arthur R. Cone
Corneli Seed Company
Crosman Seed Corp.
Ferry-Morse Seed Co.
Hamilton Seed & Coal Co.
Hamilton Seed & Coal Co.
Herbst Brothers
Holmes Seed Co.
Kelly Seed Co.
F. Lagomarsino & Sons
D. Landreth Seed Co.
The J. Chas. McCullough Seed
Co.
Charles R. Moore Co.
Charles R. Moore
John Mosbell Co.
The Nebraska Seed So.
Robt. Nicholson Seed Co.
Northrup, King & Co.
L. L. Olds Seed Co.
The Page Seed Co.
Geo. R. Pedrick & Sons
Pieters-Wheeler Seed Co.

I. L. Radwaner Seed Co., Inc. Waldo Rohnert Co.
Rudy-Patrick Seed Co.
Russell-Heckle Seed Co.
Russell-Heckle Seed Co.
Walter S. Schell, Inc.
Sherwood Seed Co.
Standard Seed Farms Co.
Stollers Seed House
U. S. Seed Co.
Vaughan's Seed Store
T. W. Wood & Sons
F. H. Woodruff & Sons, Inc.
S. D. Woodruff & Sons, Inc.

MANGEL

Associated Seed Growers, Inc.
The Barteldes Seed Co.
The Bewman Seed Co.
J. A. Boyce Co.
C. S. Brent Seed Co.
Robert Buist Company
Alf Christianson
Comstock, Ferre & Co.
Condon Bros., Seedsmen
Corneli Seed Company
Crosman Seed Corp.
Ferry-Morse Seed Co.
Hamilton Seed & Coal Co.
Hamilton Seed & Coal Co.
Herbst Brothers
Holmes Seed Co.
Kelly Seed Co.
Norval E. Kirby
F. Lagomarsino & Sons
D. Landreth Seed Co.
Leckenby Seed Co.
The Chas, H. Lilly Co.
The Chas, H. Lilly Co.
The J. Chas, McCullough Seed
Co.
Charles R. Moore MANGEL

Co. Charles R. Moore
John Mosbell Co.
The Nebraska Seed Co.
Robt. Nicholson Seed Co.
L. L. Olds Seed Co.
The Page Seed Co.
Paramount Seed Co.
Geo. R. Pedrick & Sons
Pieters-Wheeler Seed Co.
I. L. Radwaner Seed Co.
Russell-Heckle Seed Co.
Walter S. Schell, Inc.
Peter Sluis
Standard Seed Farms Co. Peter Sluis
Standard Seed Farms Co.
Stollers Seed House
U. S. Seed Co.
Vaughan's Seed Store
T. W. Wood & Sons
F. H. Woodruff & Sons, Inc.
Zwaan & Van der Molen

MUSKMELON

MUSKMELON

Associated Seed Growers, Inc.
The Barteldes Seed Co.
Hijos de S. V. Bellotti
The Bowman Seed Co.
C. S. Brent Seed Co.
Alfred J. Brown Seed Co.
Alfred J. Brown Seed Co.
Robert Buist Company
Burgess Seed & Plant Co.
W. Atlee Burpee Co.
Burrell Seeds, Inc.
Comstock, Ferre & Co.
Condon Bros., Seedsmen
Cornell Seed Company
Crosman Seed Corp.
Ferry-Morse Seed Co.
Hamilton Seed Co.
Hamilton Seed & Coal Co.
The Chas. C. Hart Seed Co.
Holmes Seed Co.
Edgar F. Hurff Co.
Kelly Seed Co.
F. Lagomarsino & Sons
D. Landreth Seed Co.
The J. Chas. McCullough Seed
Co.
Charles R. Moore
The Nebraska Seed Co.
Robt. Nicholson Seed Co.
Northrup, King & Co.
L. L. Olds Seed Co.
The J. Cashinson Seed Co.
Cago. R. Pedrick & Sons
I. L. Radwaner Seed Co.
Lawrence Robinson & Sons
Rudy-Patrick Seed Co.
Russell-Heckle Seed Co.
Walter S. Schell, Inc.
Stollers Seed House
U. S. Seed Co.
Vaughan's Seed Store
T. W. Wood & Sons
F. H. Woodruff & Sons, Inc.
MUSTARD
Associated Seed Growers, Inc.

MUSTARD

MUSTARD
Associated Seed Growers, Inc.
The Barteldes Seed Co.
The Bowman Seed Co.
J. A. Boyce Co.
C. S. Brent Seed Co.
Robert Buist Company
W. Atlee Burpee Co.
Comstock, Ferre & Co.
Condon Bros., Seedsmen
Corneli Seed Co.
Crosman Seed Corp.
A. Ertag, Inc.

Ferry-Morse Seed Co.
Hamilton Seed & Coal Co.
The Chas. C. Hart Seed Co.
Herbst Brothers
Holmes Seed Co.
Edgar F. Hurff Co.
Kelly Seed Co.
Norval E. Kirby
F. Lagomarsino & Sons
D. Landreth Seed Co.
Leckenby Seed Co.
The Chas. H. Lilly Co.
The J. Chas. McCullough Seed
Co. Co.
Mark Means Co.
D. R. Mayo Seed Co.
Charles R. Moore
John Mosbell Co.
The Nebraska Seed Co.
Robt. Nicholson Seed Co.
Northwestern Seed Growers,

Northwestern Seed Growers, Inc.
L. L. Olds Seed Co.
Geo. R. Pedrick & Sons
Pieters-Wheeler Seed Co.
L. L. Radwaner Seed Co., Inc.
Waldo Rohnert Co.
Russell-Heckle Seed Co.
Walter S. Schell, Inc.
Sherwood Seed Co.
Standard Seed Farms Co.
U. S. Seed Co.
Vaughan's Seed Store
T. W. Wood & Sons
F. H. Woodruff & Sons, Inc.
Zwaan & Van der Molen
MIISTARD—CHINESE

MUSTARD—CHINESE
Associated Seed Growers, Inc.
Barteldes Seed Co.
C. S. Brent Seed Co.
J. A. Boyce Co.
Robert Buist Company
W. Atlee Burpee Co.
Corneli Seed Co.
Ferry-Morse Seed Co.
Hamilton Seed & Coal Co.
Chas. C. Hart Seed Co.
Herbst Brothers
Kelly Seed Co.
Norval E. Kirby
F. Lagomarsino & Sons
D. Landreth Seed Co.
Michael-Leonard Co.
Chas. R. Moore
John Mosbell Co.
Nobert Nicholson Seed Co.
Northrup, King & Co.
L. L. Olds Seed Co.
Pieters-Wheeler Seed Co.
I. L. Radwaner Seed Co.
Stollers Seed House
Vaughan's Seed Store
T. W. Wood & Sons
F. H. Woodruff & Sons, Inc.
Zwaan & Van der Molen
OKRA
Associated Seed Growers, Inc.
The Barteldes Seed Co.
Constock, Ferre & Co.
Condon Bros., Seedsmen
Corneli Seed Co.
Hamilton Seed Co.
Hamilton Seed Co.
Hamilton Seed Co.
Hamilton Seed Co.
Comstock, Ferre & Co.
Condon Bros., Seedsmen
Corneli Seed Co.
Hamilton Seed Co.
Hamilton Seed Co.
Hamilton Seed Co.
Co.
Chas. R. Moore
John Mosbell Co.
The Chas. C. Hart Seed Co.
Holmes Seed Co.
Kelly Seed Co.
F. Lagomarsino & Sons
D. Landreth Seed Co.
The Nebraska Seed Co.
Robt. Nicholson Seed Co.
The Nebraska Seed Co.
Robt. Nicholson Seed Co.
The Nebraska Seed Co.
The Rarteldes Seed Co.
The Rarteldes Seed Co.
The Barteldes Seed Co.

Braslan Seeu Gro...
Inc.
C. S. Brent Seed Co.
Alfred J. Brown Seed Co.
Robert Buist Company
W. Atlee Burpee Co.
Burrell Seeds, Inc.
Comstock, Ferre & Co.
Condon Bros., Seedsmen
Corneli Seed Company
Crosman Seed Corp.
Ferry-Morse Seed Co.

H. D. Garwood Seed Co.
Griscom & Co. Inc.
Hamilton Seeds & Coal Co.
The Chas. C. Hart Seed Co.
Herbst Brothers
Hollenbach's Seed Store
Holmes Seed Co.
Kelly Seed Co.
F. Lagomarsino & Sons
D. Landreth Seed Co.
The Chas. H. Lilly Co.
The J. Chas. McCullough Seed
Co.
Charles R. Moore
John Mosbell Co.
The Nebraska Seed Co.
Robt. Nicholson Seed Co.
Northrup, King & Co.
L. L. Olds Seed Co.
Paramount Seed Co.
F. Pagrick & Sons
Pieters-Wheeler Seed Co.
I. L. Radwaner Seed Co.
I. L. Radwaner Seed Co.
Russell-Heckle Seed Co.
Walter S. Schell, Inc.
Sherwood Seed Co.
F. F. Smith & Co., Inc.
Standard Seed Farms Co.
Stollers Seed House
U. S. Seed Co.
Vaughan's Seed Store
T. W. Wood & Sons
F. H. Woodruff & Sons, Inc.
S. D. Woodruff & Sons, Inc.
S. D. Woodruff & Sons, Inc.
The Barteldes Seed Co.
Alfred J. Brown Seed Co.
Robert Buist Company
Comstock, Ferre & Co.
Condon Bros., Seedsmen
Corneli Seed Company
Ferry-Morse Seed Co.
Hamilton Seed & Coal Co.
The Chas. C. Hart Seed Co.
Hollenbach's Seed Store
Holmes Seed Co.
F. Lagomarsino & Sons
D. Landreth Seed Co.
Michael-Leonard Co.
Charles R. Moore
The Nebraska Seed Co.

The J. Chas. McCullough Seed Co.
Michael-Leonard Co.
Charles R. Moore
The Nebraska Seed Co.
Robt. Nicholson Seed Co.
L. L. Olds Seed Co.
The Page Seed Co.
The Page Seed Co.
Geo. R. Pedrick & Sons
I. L. Radwaner Seed Co., Inc.
Waldo Rohnert Co.
(onion bulb)
Russell-Heckle Seed Co.
William G. Scarlett & Co.
Walter S. Schell, Inc.
J. P. Snapp & Son
Stollers Seed House
U. S. Seed Co.
Vaughan's Seed Store
T. W. Wood & Sons
F. H. Woodruff & Sons, Inc.
S. D. Woodruff & Sons, Inc.
PARSLEY
Associated Seed Growers. Inc.

PARSLEY

Associated Seed Growers. Inc.

The Barteldes Seed Co.

The Bowman Seed Co.

C. S. Brent Seed Co.

Robert Buist Company

W. Atlee Burpee Co.

Condon Bros., Seedsmen

Corneli Seed Co.

Crosman Seed Co.

Crosman Seed Co.

Hamilton Seed & Coal Co.

The Chas. C. Hart Seed Co.

Herbst Brothers

Holmes Seed Co.

Kelly Seed Co.

Norval E. Kirby

F. Lagomarsino & Sons

D. Landreth Seed Co.

The J. Chas. McCullough Seed

Co.

Charles R. Moore

John Mosbell Co.

The Nebraska Seed Co.

Northrup, King & Co.

L. L. Olds Seed Co.

The Page Seed Company

Geo. R. Pedrick & Sons

Pieters-Wheeler Seed Co.

Russell-Heckle Seed Co.

Walter S. Schell, Inc.

Sherwood Seed Co.

Vaughan's Seed Store

RIIYEDS CHIDE

T. W. Wood & Sons F. H. Woodruff & Sons, Inc. S. D. Woodruff & Sons, Inc. Zwaan & Van der Molen.

PARSNIP

PARSNIP

Associated Seed Growers, Inc.
The Barteldes Seed Co.
The Bowman Seed Co.
C. S. Brent Seed Co.
Robert Buist Company
W. Atlee Burpee Co.
Comstock, Ferre & Co.
Comstock, Ferre & Co.
Condon Bros., Seedsmen
Corneli Seed Co.
Crosman Seed Corp.
Ferry-Morse Seed Co.
Hamilton Seed & Coal Co.
The Chas. C. Hart Seed Co.
Herbst Brothers
Holmes Seed Co.
Kelly Seed Co.
Norval E. Kirby
F. Lagomarsino & Sons
D. Landreth Seed Co.
Law, Somner Pty., Ltd.
The Chas. H. Lilly Co.
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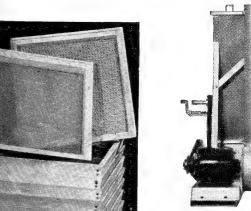
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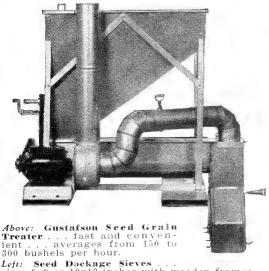
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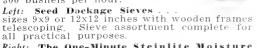
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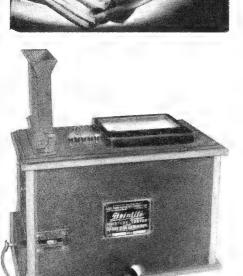








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Banner-seeds-Corneli Seed Co., St.

Louis, Mo.

Barteldes—field & garden seeds—Barteldes Seed Co., Lawrence, Kan.
Beakon—"A Safe Guide to Better Crops" field seeds—Gooding Seed Co., Good-

ing, Idaho. "Bear our Name and Brand, Arco"—field and garden seeds—Arthur R. Cone, Buffalo, N. Y. eaver Brand—seeds—Sommer Bros.

Beaver Seed Co., Pekin, Ill.

Beaver—timothy seed—Steele, Brigg Seed Co., Toronto, Ont., Canada. Bee Hive—hardy Utah alfalfa seed— Peppard Seed Co., Kansas City, Mo. Briggs

"Belt's Better Grasses"—The Belt Seed Co., Inc., Baltimore, Md. "Be Satisfied — Use Brent's Premium

Seeds"-C. S. Brent Seed Co., Lexington, Ky.

"Best at any Price"-seeds-Keller Seed Store, Shawnee, Okla.

"Better Be Safe Than Sorry"—field seeds —Ross Seed Co., Louisville, Ky. "Better Seeds, Better Crops"—

Seed Co., Council Bluffs, Iowa.

Big Chief—field seeds—Northwestern

Seed Co., Keokuk, Iowa.

Blackfoot Brand-alfalfa-Idaho Grimm Alfalfa Seed Growers Assn., Blackfoot, Idaho.

"Blizzard Belt Seeds are the Best for All Climates" — garden seeds — Burgess Seed & Plant Co., Galesburg, Mich

Blood Tells—garden seeds—Rogers Bros. Seed Co., Chicago, Ill.

Label — dahlia roots — Wayland Dahlia Gardens, Wayland, Mich.

Blue Ribbon Brand—field seeds—Allied Seed, Div. of G. L. F. Mills Co.-op., Inc., Ft. Wayne, Ind.

Blumont Brand-field seeds-Blue Mountain Seed Growers Assn., La Grande, Ore.

Bow Brand-field seeds-Bowman Seed

Co., Concordia, Kan.
"Bred-Not Just Grown"-garden seeds Associated Seed Growers, Inc., New Haven, Conn.

Irade Marks and Slogans

Many seedsmen, as well as manufacturers, have spent years in building up a demand for their trade-marked merchandise and buyers have acquired the habit of calling for these brands. Sometimes a buyer will not remember the name of the manufacturer or seedsman who produces a certain brand. This alphabetical list of trade-marked brands should prove useful in such cases. These trade marks and slogans are printed as sent to us by seedsmen and manufacturers who advertise in this book. The publisher assumes no responsibility. For names of firms using trade marks not listed here, write us.

Brent's Premium—field and garden seeds
—C. S. Brent Seed Co., Lexington, Ky.

Co., Ltd., Toronto, Ont., Canada. Brookside—lawn grass seed—Peppard

Seed Co., Kansas City, Mo.
"Brown's Tested Seeds—They Grow"—
garden seeds—Alfred J. Brown Seed Co., Grand Rapids, Mich.

Buckaroo Brand-garden seeds-Max F. Wilhelmi, Seedsman, Lawrence, Kan. Buckeye-Seeds-J. Chas. McCullough

Seed Co., Cincinnati, Ohio.
"Buist Bulbs Bloom"—Robert Buist Co., Philadelphia, Pa. Buist's Prize Mee

Medal-garden seeds-Robert Buist Co., Philadelphia, Pa. Burpeeana—seeds—W. Atlee Burpee Co.,

Philadelphia, Pa. "Burpee's Seeds Grow"—W. Atlee Burpee

Co., Philadelphia, Pa.
"Buy at the Source of Supply"—alfalfa seed—Lakin Seed Co., Miles City,

Mont. "California's Best Flower Seeds"--flower seeds—Wm. Macdonald Seed Co., Santa Maria, Calif.

"California's Choicest Flower Seed Since 1890"—Bodger Seeds, Ltd., El Monte, Calif

Capitol Brand Seeds—field seeds and feeds—Capitol Fuel, Feed & Seed Co., Phoenix, Ariz.

Capitol City Seeds—F. W. Bolgiano & Co., Inc., Washington, D. C.

Carlson Brand—field seeds—Roscoe J.

Carl & Son, Lansing, Mich.

Casco—field and garden seeds—CuffArchias Seed Co., Brawley, Calif.

Cloister—lawn grass seed mixture—As-

sociated Seed Growers, Inc., New Haven, Conn.

Columbia Park-lawn grass seed-Duryea Seed Co., Inc., New York, N. Y. Compass Brand-field seeds-Davenport

Seed Co., Davenport, Iowa. Condon's Sure Crop Seeds. None Better at Any Price. Condon's Seeds Satisfy

-Condon Bros. Seedsmen, Rockford,

Corn Belt — field seeds — Northwestern Seed Co., Keokuk, Iowa.

Cream of the Crop--field seed. sun cured and field ripened blue grass—Peppard Seed Co., Kansas City, Mo.

Crebent—lawn seed—The Chas. H. Lilly Co., Seattle, Wash.

Crescent—lawn seed—The Chas. H. Lilly Co., Seattle, Wash.

"Crosman's Famous Seeds for more than A Hundred Years"—flower, vegetable and grass seeds—Crosman Seed Co., East Rochester, N. Y.

Crystal—field seeds—Cargill, Inc., Minneapolis, Minn.

Dakota Leader Brand — field seeds-Valker-Christensen Co., Minot, N. D. DeLuxe Brand—lawn grass seed mixture

-Associated Seed Growers, Inc., New Haven, Conn.

Disco-field seeds — Dakota Improved Seed Co., Mitchell, S. D.

Donley "Super Cleaned"—field and lawn

seeds-J. L. Donley & Bro., Ashland,

Duryea's Central Park—lawn grass seed Duryea Seed Co., Inc., New York,

Echo Brand-field seeds-Purcell Seed Co., Evansville, Ind.

Eclipse—field seeds—Keller Seed Store, Shawnee, Okla.
"Emblem of Purity in Seeds"—The Chas.

H. Lilly Co., Seattle, Wash. Embro—popcorn—Ed F. Mangelsdorf &

Bro., Inc., St. Louis, Mo.

Emerald—field seeds—Steele, Briggs Seed Co., Ltd., Toronto, Ont., Canada. Emerald—lawn seeds—J. Chas. McCullough Seed Co., Cincinnati, Ohio.

Ermine—timothy seed—Steele, Briggs Seed Co., Ltd., Toronto, Ont., Canada. Estate—lawn seed—Wm. G. Scarlett &

Co., Baltimore, Md. Evergreen-farm seeds-The Chas. H. Lilly Co., Seattle, Wash.

"Every shipment backed by Hurff reputation" — vegetable seeds — Edgar F. _ vegetable seeds — Edgar F.

Hurff Co., Swedesboro, N. J.

Evergreen — lawn dressing — R

Nicholson Seed Co., Dallas, Texas.

"Everything for the Garden but the Rain" —seeds—The J. Chas. McCullough Seed Co., Cincinnati, Ohio.

Falcon—field seeds—Cargill, Inc., Minneapolis, Minn.

"Famous for Purity and Vitality"den seeds-Robert Buist Co., Philadelphia, Pa.
Fargo Seed House—field, garden seeds,

seed grain—Magill & Co., Fargo, N. D. "Farmers Know Seed That Grow"—field

and garden seeds—Arthur R. Cone, Buffalo, N. Y.

Far West — field seeds - Jenks-White Seed Co., Salem, Ore.

Ferry's Seeds-field and garden seeds-Ferry-Morse Seed Co., Detroit, Mich. "Fewer—But Better Varieties"—garden seeds—Zwaan & Van der Molen, Voor-

burg, Holland. Fine Green-lawn seed-F. H. Woodruff & Sons, Inc., Milford, Conn.
"53 Years' Faithful Service"—field seeds

-E. F. Sanguinetti, Yuma, Ariz.

Flawn-lawn seed mixture, especially for the South—F. H. Woodruff & Sons, Inc., Milford, Conn.

Floradale—seeds—W. Atlee Burpee Co., Philadelphia, Pa.

"Flower Seeds of Proven Quality"-seeds -Buckman, Denholm & Holden Seed Co., Lompoc, Calif.

For-Get-Me-Not Brand-grass seeds-Julius Loewith, Inc., New York, N. Y. "For the Good of the Country"-field and

grass seed-Seaboard Seed Co., Philadelphia, Pa. Fordhook-seeds-W. Atlee Burpee Co.,

Philadelphia, Pa.
For Land Sake Buy Land O'Lakes
Seeds"—Land O'Lakes Creameries, Inc., Minneapolis, Minn.

"Forty Years the Best"-field seeds-Ross Seed Co., Louisville, Ky.

Funk Farms—field seeds—Funk Bros. Seed Co., Bloomington, Ill. Funk's-soybean feeds-Funk Bros. Seed

Co., Bloomington, Ill. G Hybrids-Funk Bros. Seed Co., Bloom-

ington, Ill.

Gilbert's Dependable Seed-field and gar- Imperial-lawn seed-Philadelphia Seed den seed-D. H. Gilbert Seed Co., Inc., Monticello, Fla.

Gilt Edge Brand-seeds-National Seed

Co., Louisville, Ky.

Gladflower-flower seeds-W. Atlee Burpee Co., Philadelphia, Pa.

L. F.—seeds and feed—Cooperative G. L. F. Mills, Inc., Buffalo, N. Y.

Globe Brand-specialty feeds and bird seeds-The Albert Dickinson Co., Chi-

Gold - field seeds - The Ackerman Co., Lima, Ohio.

Goldinhart-seeds-W. Atlee Burpee Co., Philadelphia, Pa.

Gold Medal-field seeds-the sure growing kind-Louisville Seed Co., Louisville, Ky.

Gold Standard-red top seed-J. M. Schultz Seed Co., Dieterich, Ill.

Gramercy Park-lawn grass seed--Dur-

yea Seed Co., Inc., New York, N. Y. Greenblade Brand—lawn grass seed mixture—Associated Seed Growers, Inc., New Haven, Conn.

Green Mantle Brand-lawn grass seed mixture - Associated Seed Growers, Inc., New Haven, Conn.

Greene Park—lawn grass seed—The Page Seed Co., Greene, N. Y.

Greenway-lawn seed-Wm. G. Scarlett & Co., Baltimore, Md.

Gro-Green Brand-lawn grass seed mixture—Associated Seed Growers, Inc., New Haven, Conn.

Gro-Sod-lawn food-F. H. Woodruff & Sons, Inc., Milford, Conn.

"Grown by Hurff"—Edgar F. Hurff Co., Swedesboro, N. Y.
"Growers of California and Colorado Seeds"-vine seeds-Lawrence Robin-

son & Sons, Modesto, Calif. Growers of "Merit" Flower Seeds—Waller-Franklin Seed Co., Guadalupe, Calif.

"Growers of Select Stocks"—garden seeds —Pieters Wheeler Seed Co., Gilroy, Calif.

"Grown Where Dahlias Grow Best"— dahlias — Wayland Dahlia Gardens, Wayland, Mich.

"Hardy High Altitude Grown Seeds"garden and vine seeds-Burrell Seeds, Inc., Rocky Ford, Colo.

Hart's-garden and flower seeds-Chas. C. Hart Seed Co., Wethersfield, Conn. Harvest-field seeds-Wm. G. Scarlett & Co., Baltimore, Md.

Hawk-alsike seed-Steele, Briggs Seed Co., Ltd., Toronto, Ont., Canada. Hawkeye-field seeds-Hamilton Seed &

Coal Company, Cedar Rapids, Iowa. Haymaker — field seed — Peppard Seed

Co., Kansas City, Mo. "Heart of the Clover District" - farm seeds-The Ackerman Co., Lima, Ohio.

Helderberg Birdsfoot Trefoil—perennial herb—Eastern, N. Y. Birdsfoot Trefoil Co-op., Inc., Delmar, N. Y.

"Highest Quality Vine Seeds"-seeds-H. D. Garwood Seed Co., Rocky Ford, Colo.

Honor—field seeds—Stanford Seed Co., Buffalo, N. Y.

Hoosier-Crost—hybrid seed corn—Edw. J. Funk & Sons, Kentland, Ind.

Hormolawn—lawn seed—Seaboard Seed Co., Philadelphia, Pa.

Horseshoe—seeds—Corneli Seed Co., St. Louis, Mo.

"Hungarian Grown Seeds"-field seeds-Hungarian Farmers Co-op. Ass'n., Budapest, Hungary.

Co., Swedesboro, N. J.

L. Oakes & Co., Caldwell, Idaho.

Co., Philadelphia, Pa.

Irish Green—lawn grass seed—Peppard Seed Co., Kansas City, Mo.

"It Pays to Sow 'Em"-field seeds-Ross Seed Co., Louisville, Ky.

Jacques—sweet corn—Jacques Seed Co., Prescott, Wis.

Judge Brand-field Seeds-Purcell Seed Co., Evansville, Ind.

K-brand seeds-Geo. Keller & Sons, Quincy, Ill.
"Kelly's Seeds Grow"—field seeds—Kelly

Seed Co., Peoria, Ill.

-seeds-Corneli Seed Co., St. Keystone-Louis, Mo.

Kingscrost — hybrid corn — Northrup, King & Co., Minneapolis, Minn.

"King's K-Brand Seeds Are Reliable"field and garden seeds-H. C. King & Sons, Battle Creek, Mich.

"Known for Reliability Since 1888—Old Gold Brand Seeds"—L.L. Olds Seed Co.,

Madison, Wis.

Knox's Quality—farm and garden seeds —Paramount Seed Co., Stockton, Calif. Lago—garden and field seeds—F. Lagomarsino & Sons, Sacramento, Calif.

"Largest Seed House Below Sea Level" -field and garden seeds—Cuff-Archias

Seed Co., Brawley, Calif.

La. Grown Seeds — field seeds — W. T.

Nolin, Hamburg, La.

Land o' Lakes — field seeds — Land o'

Lakes Creameries, Inc., Minneapolis, Minn.

Landreth's Seeds-garden seeds -Landreth Seed Co., Bristol, Pa. Lake of the Woods Brand—field seeds-

Northern Field Seed Co., Winona, Minn. eonard's Seeds—Michael-Leonard Co., Leonard's Sioux City, Iowa. Liberty—field seeds—Stanford Seed Co.,

Buffalo, N. Y.

Chas. H. Lilly Co., Seattle, Wash.

"Lilly's Purity-Sealed Seeds"—field and garden seeds—The Chas. H. Lilly Co.,

Seattle, Wash.

Lion Brand—red clover seed—Steele, Briggs Seed Co., Ltd., Toronto, Ont., Canada.

Lone Star--bulbs—American Bulb Co., Chicago, Ill.

M—all seeds—Ed. F. Mangelsdorf & Bro., Inc., St. Louis, Mo.

"M Brand Seeds Are Selected for Quality"-field seeds-Ed. F. Mangelsdorf & Bro., Inc., St. Louis, Mo. Marvelawn—grass seed—The Page Seed

Co., Greene, N. Y.

Master Farm Seeds Brand—field seeds—

Farmer Seed & Nursery Co., Faribault, Minn.

Maybell—pure field seeds—Ross Seed Co., Louisville, Ky.

McCullough's Seeds—seeds—The J. Chas. McCullough Seed Co., Cincinnati, Ohio. Merit — flower seed — Waller-Franklin Seed Co., Guadalupe, Cal.

Milford—grass seed—F. H. Woodruff & Sons, Inc., Milford, Conn.

Milford Green—lawn seed mixture—F. H. Woodruff & Sons, Inc., Milford, Conn. Minhybrid No. 250 — Japanese Hulless Pop Corn—Farmer Seed & Nursery Co., Faribault, Minn.

Minrol—Soy Meal—soybean feed—Funk Bros. Seed Co., Bloomington, Ill.

National Farm (wholesale) Seed Distributors-seeds-Advance Seed Co., San Francisco, Calif.

NBSco Brand—field seeds—N. Bonahoom Seed Co., Hastings, Neb.

Hurff-garden seeds-Edgar F. Hurff Newday-farm and feed seeds-Newday Seeds, Inc., Fargo, N. D.

Idaho Grown Seeds-field seeds-Edgar New Idea Brand-feed-Purcell Seed Co., Evansville, Ind.

"New Jersey Certified Tomato Seed"-Geo. R. Pedrick & Sons, Pedricktown,

Nicholson's—garden, field and flower seeds—Robert Nicholson Co., Dallas, Texas.

Nord—farm seeds—Twin City Seed Co., Minneapolis, Minn.

"Northern Grown Farm Seeds"-Cargill, Inc., Minneapolis, Minn.

Northland Brand—farm seeds—North-

rup, King & Co., Minneapolis, Minn. No. 170—lawn seed—F. H. Woodruff &

Sons, Inc., Milford, Conn. No. 177—lawn seed—F. H. Woodruff &

Sons, Inc., Milford, Conn. Old English — lawn seed — Philadelphia

Seed Co., Philadelphia, Pa.
Old Gold—field, flower and garden seeds

L. L. Olds Seed Co., Madison, Wis. Old Homestead-lawn grass seed-Dur-

yea Seed Co., Inc., New York, N. Y. Old Orchard Brand — seeds — Rex. D.

Pearce, Moorestown, N. J.
Olds—field seeds—L. L. Olds Seed Co., Madison, Wis.

O & M—field, garden, lawn seeds and seed grains—O & M Seed Co., Green Springs, Ohio.

"O & M Northern Grown Seed Corn and Seed Oats Always Give Best Results" -field seeds—O & M Seed Co., Green Springs, Ohio.

Olympic Brand—true Colonial Bent— The Chas. H. Lilly Co., Seattle, Wash. Oregon Certified Brand—bent grass seed -Lewis & Clark Seed Co., Astoria, Ore. Oriole—field and bird seeds—Wm. G. Scarlett & Co., Baltimore, Md.

Osco Brand-field seeds-Ouren Seed Co.,

Council Bluffs, Iowa.
"Our Business Is Growing"—g arden seeds — Waldo Rohnert Co., Gilroy,

Calif. "Our Seeds Grow Friends"-seeds-The J. Chas. McCullough Seed Co., Cincin-

nati. Ohio. —field seeds—A. S. Paterson & Co., Ltd., Dunedin, New Zealand.

"Page's Standard Quality Seeds"garden, field and flower seed-The Page

Seed Co., Greene, N. Y.

Paramount—field and garden seeds—
Paramount Seed Co., Stockton, Calif.
Pa-Se-Co—seed corn—The Page Seed Co.,

Greene, N. Y. Patriot Brand-lawn and farm seeds-Seaboard Seed Co., Philadelphia, Pa.

Peak of Perfection-field and garden seeds-Paramount Seed Co., Stockton, Calif.

Pedrick's—high quality seeds—George R. Pedrick & Sons, Pedricktown, N. J. Pep—lawn grass seed—Peppard Seed

Co., Kansas City, Mo. Pep Pop-popcorn-Peppard Seed Co.,

Kansas City, Mo.

Pepseeco—"Cream of the Crop" field seeds—Peppard Seed Co., Kansas City,

Mo. Perfection—field seed—Geo. P. Sexauer & Son, Brookings, S. D.

Permaturf—lawn seed—Twin City Seed Co., Minneapolis, Minn.

Pilgrim Brand—lawn grass seed mixture -Associated Seed Growers, Inc., New Haven, Conn.

Pine Tree-farm seeds--The Albert Dick-

inson Co.. Chicago, Ill.

"Plant Hart's Seeds"—garden seeds—The
Chas. C. Hart Seed Co., Wethersfield, Conn.

"Plant Page's Seeds-They Grow"-garden, field and flower seeds—The Page Seed Co., Greene, N. Y. Platte—seeds—The Nebraska Seed Co.,

Omaha, Nebr.

Premier-lawn seed-F. H. Woodruff & Sons, Inc., Milford, Conn.

Co., Minneapolis, Minn.

Pride of the North—farm and lawn seeds Twin City Seed Co., Minneapolis, Minn.

Puget Sound Brand -- seeds — Leckenby

Seed Co., Seattle, Wash.

Pure Bred Seeds Brand—garden seeds Condon Bros. Seedsmen, Rockford, Ill. "Pure Tested Seeds"-Holmes Seed Co., Canton, Ohio.

Puritan-blue grass seed-Sphar & Gay

Seed Co., Winchester, Ky.

Purity-field, flower and garden seed-Robert Nicholson Seed Co., Dallas, Texas.

"Purity and Reliability Since 1907"— seeds—J. P. Snapp & Sons, Limestone, ${
m Tenn}$

-WSCO — garden seeds — Pieters-Wheeler Seed Co., Gilroy, Calif.

-field seeds-Philadelphia Seed Quaker-Co., Philadelphia, Pa.

"Quality H & T Seeds"—Jacob Hartz
Seed Co., Stuttgart, Ark.

Quality Seeds-field seeds-Stollers Seed

House, Paulding, Ohio.
"Quality Seeds That Grow"—field and

garden seeds-Valker-Christensen Co., Inc., Minot, N. D. Queen City-seeds-J. Chas. McCullough

Seed Co., Cincinnati, Ohio. Quicklawn Brand-lawn grass seed mix-Associated Seed Growers, Inc., New Haven, Conn.

Radway's—garden & field seeds—I. L. Radwaner Seed Co., Inc., New York,

Rbest Feeds Brand—feeds—The Bowman Seed Co., Concordia, Kans.

"Red Top People-Tip Top Sales"-seeds

Shultz Seed Co., Olney, Ill.

Regal Brand—seeds—Rudy-Patrick Seed
Co., Kansas City, Mo.

Reliable—field seed—J. M. Schultz Seed

Co., Dieterich, III.

Reliable Seeds Brand—garden seeds—
Waldo Rohnert Co., Gilroy, Calif.

"Reliable Seed for the South Since 1900"
—field seed—R. E. Lambert & Sons, Darlington, Ala.

Rex Brand-seeds-Rudy-Patrick Seed Co., Kansas City, Mo.

Robin-Seeds - vine seeds - Lawrence Robinson & Sons, Modesto, Calif.

Rob-See-Co—garden seeds and seed corn
—J. C. Robinson Seed Co., Waterloo, Nebr.

Rohco Brand-lettuce seed-Waldo Rohnert Co., Gilroy, Calif.

Royal—field and grass seeds—Ru Patrick Seed Co., Kansas City, Mo.

Santa Barbara Seed Beans-McCrea Seed Co., Santa Barbara, Calif.

Scott's-lawn seed-0. M. Scott & Sons Co., Marysville, Ohio.

Security-field seeds-Cargill, Inc., Minneapolis, Minn.

"Seedsmen For Over a Century"—garden and lawn seeds, bulbs—Robert Buist Co., Philadelphia, Pa.

"Seed With a Background"—pepper and tomato seed—Joseph White Co., Bridgeton, N. J.

"Seeds of Rare Plants"—seeds—Rex. D.

Pearce, Moorestown, N. J.
"Seeds That Grow"—W. Atlee Burpee

Co., Philadelphia, Pa.
"Seeds That Grow"—garden, field and flower seeds—The Chas. C. Hart Seed Co., Wethersfield, Conn.

"Seeds That Succeed"-garden, field and lawn seed—S. D. Woodruff & Sons, Inc., Orange, Conn.

Co., New York, N. Y.

"Seeds That Grow, Need Any?"—The T-N-T Pop Corn—The Barteldes Seed

Nebraska Seed Co., Omaha, Nebr.

Service First Brand—field seeds—International Seed, Inc., New York, N. Y.

Top Flight Bantam—hybrid sweet corn—Michael-Leonard Co., Sioux City, Iowa.

Co., Minneapolis, Minn.

Shady Lawn Brand—lawn grass seed mixture — Associated Seed Growers, Inc., New Haven, Conn.

nady Nook—lawn seed—J. Chas. Mc-

Cullough Seed Co., Cincinnati, Ohio.

Shady Spot-lawn grass mixture-Duryea Seed Co., Inc., New York, N. Y.
"Shields Sells Seeds" — Shields, F - Shields, Buhl,

Shurco Seed Sure Success" — garden seeds—The John Mosbell Co., Mont-"Shurco

vale, N. J. S & S (Service & Satisfaction)-field and

garden seeds—Shuler & Smoak, Orangeburg, S. C. "Since 1820" — Comstock, Ferre & Co.,

Wethersfield, Conn.

Sioux-field, garden and flower seeds-Michael-Leonard Co., Sioux City, Iowa. Iowa.

Six Green Stripes—blue grass seed— The Nebraska Seed Co., Omaha, Nebr. Skagit Valley Brand—garden seeds—J.
A. Boyce Co., Mt. Vernon, Wash.

Solar Brand-field seeds-Henry Hirsch & Sons, Inc., Toledo, Ohio.

Soo-Bred-bantam sweet corn-Michael-Leonard Co., Sioux City, Iowa.

Sterling-farm seeds and feedsrup, King & Co., Minneapolis, Minn.
"Stollers' Quality Seed For All Your
Needs"—Stollers Seed House, Paul-

ding, Ohio.
Stork—field seeds—Cargill, Inc., Min-

neapolis, Minn. Suburban—lawn seed—J. Chas. McCul-

lough Seed Co., Cincinnati, Ohio.
"Suc-Seed with Page's Seeds"—field, flower and garden seeds — The Page Seed Co., Greene, N. Y.

"Suhrco Seed Sure Success" - garden seeds -- John Mosbell Co., Montvale,

Sunnybrook — seeds — W. Atlee Burpee Co., Philadelphia, Pa.

Sunrise Brand-strawberry clover-The Chas. H. Lilly Co., Seattle, Wash.

Superior—lawn grass mixture—Duryea Seed Co., Inc., New York, N. Y. Superfine Brand—lawn seed—The J. Chas. McCullough Seed Co., Cincinnati,

Ohio.

Supreme-seed grain, corn and grass seeds — Goldberg Seed & Feed Co., Fargo, N. D.

Sterling Brand-farm seeds-Northrup, King & Co., Minneapolis, Minn. S-X Brand—seeds—Geo. P. Sexauer &

S-A Brand—seeds—Geo. P. Sexauer & Son, Brookings, S. D.

"Tested Radway Seeds—Always Dependable"—seeds—I. L. Radwaner Seed Co., Inc., New York, N. Y.

"The Best in Seed Corn"—C. S. Clark &

Sons, Wakeman, Ohio.

"The Oldest & Largest Seed House in the South" — T. W. Wood & Sons, Richmond, Va.

"The Sure Growing Kind"-field seeds-Louisville Seed Co., Inc., Louisville, Ky.
"They Grow Better—They Yield Better"
—seeds—Walter S. Schell, Inc., Har-

risburg, Pa. Thor-o-Brand -- s e e d s—Law,

Pty., Ltd., Melbourne, Australia.
Thunderbird Brand—field seeds—Capital Fuel, Feed & Seed Co., Phoenix, Ariz.
Tiger—red clover seed—Steele, Briggs
Seed Co., Ltd., Toronto, Ont., Canada.
"Tiger Brand Seeds for All Your Needs"

-seeds · - Sommer Bros. Seed Pekin, Ill.

T.M.—garden seeds—Thomas Madsen &

Co., Lawrence, Kans.

Pride-hybrid seed corn-Twin City Seed Shaditurf-lawn seed-Twin City Seed Trinity Brand-field and grass seed-The Belt Seed Co., Inc., Baltimore, Md.

Tru-Green-lawn seed-J. Chas. McCul-

lough Seed Co., Cincinnati, Ohio.
Tru-Shade—lawn seed—F. H. Woodruff &
Sons, Inc., Milford, Conn.

Truval—field seeds of true value—Purcell Seed Co., Evansville, Ind.

Turf-Maker-lawn seed mixture-F. H. Woodruff & Sons, Inc., Milford, Conn. States Seed Co., St. Louis, Mo.

Utryit-seeds-The Nebraska Seed Co., Omaha, Nebr.

Valley—seeds—J. Chas. McCullough Seed Co., Cincinnati, Ohio.

Value Brand-field seeds-Henry Hirsch & Sons, Inc., Toledo, Ohio.

Vaughan's-field, garden and grass seeds, and bulbs-Vaughan's Seed Store, Chicago, Ill.

Village Green-lawn grass mixtures-Duryea Seed Co., Inc., New York, N. Y. Wab-seeds-W. Atlee Burpee Co., Phi-

ladelphia, Pa. Waller's—flower seeds—Waller-Franklin Seed Co., Guadalupe, Calif.

Washington Park-lawn seed-McCullough Seed Co., Cincinnati, Ohio.

W.D.G. Blue Label Dahlias — Grown where Dahlias grow Best—Wayland Dahlia Gardens, Wayland, Mich. "White's Quality Seeds"—garden seeds-Joseph White Co., Bridgeton, N. J.

Whiz-Bang-popcorn-J. Chas. McCullough Seed Co., Cincinnati, Ohio.

Wolf—red clover seed—Steele, Briggs Seed Co., Ltd., Toronto, Ont., Canada. Woodco Quality—grass seed—F. H. Woodruff & Sons, Inc., Milford, Conn. Wood's Dixie Lawn Grass—Grows Green in Dixie Sunshine—T. W. Wood & Sons,

Richmond, Va. Wood's Tested Seeds-field, garden and flower seeds-T. W. Wood & Sons,

Richmond, Va. Woodruff Seeds—vegetable seeds and grasses—F. H. Woodruff & Sons, Inc..

Milford, Conn. XX-1—hybrid seed corn—Ed. F. Mangelsdorf & Bro., Inc., St. Louis, Mo.

Yellows Resistant—cabbage seed—Wisconsin Cabbage Seed Co., Racine, Wis. Yorkshire Park—lawn grass seed—D yea Seed Co., Inc., New York, N. Y. -Dur-

Zwaan's Snowdrift—cauliflower seed— Zwaan & Van der Molen, Voorburg Holland.

Allied Trades

AA Quality-fertilizer-American Agricultural Chemical Co., New York, N. Y. AA Westcoast-raffia-McHutchison & Co., New York, N. Y.
"Ace of Bug Killers"—insecticide—One-

Spot Co., Elkridge, Md. Acme—insecticide—Acme White Lead &

Color Works, Detroit, Mich. Actirote - insecticide-Hammond Paint

& Chem. Co., Beacon, N. Y. & D-Peat moss stable bedding-

Atkins & Durbrow, New York, N. Y Aeroil—oil burning equipment—Aeroil Burner Co., Inc., West New York, N. J. Agate—seed scale—Henry Troemner, Philadelphia, Pa.

grico — fertilizer—American tural Chemical Co., New York, N. Y.

Alfco—crab grass killer—A merican
Liquid Fertilizer Co., Marietta, Ohio.

"A Live Line for Live Dealers"—garden

sprays-Calif. Spray Chemical Corp., Elizabeth, N. J.

-garden tools-Easy-Purpose Hoefold Mfgr., Faribault, Minn.

Amalead—bag seals—E. J. Brooks Co.,

Newark, N. J.

American — peat moss — American Soil Sponge Selling Corp., New York, N. Y. American Bean and Pea Thresher— American Grain Separator Co., Minne-

apolis, Minn.

- cotton bags - Ames Bag Co., Ames -Cleveland, Ohio. Amesaks-cotton bags-Ames Bag Co.,

Cleveland, Ohio.

Annia-Germ—f u m i g a n t insecticide— Douglas Chem. & Supply Co., Kansas City, Mo.

Ant-B-Gon-Ant Control - Calif. Spray Chem. Corp., Elizabeth, N. J.
Ant Gas—ant and mole exterminator—

Hammond Paint & Chemical Co., Beacon, N. Y.

Antrap-ant killer-Hammond Paint &

Chem. Co., Beacon, N. Y.

Antrol—house and garden pest controls

—The A. S. Boyle Co., Jersey City,

Antx-repellent-Nott Mfg. Co., Mt. Vernon, N. Y.

A.P.G.—seed packets and catalog envelopes—American Paper Goods Co., Chicago, Ill. "A Package Sealed is a Package Saved"

-bag seals-E. J. Brooks Co., Newark, N. J.

lion, Wis. Arrow—peat moss—New Amsterdam

Import & Supply Co., Inc., New York, "A Scale for Every Seed Need"-scales

—Detecto-Gram Scales, Brooklyn, N. Y. "Automatic Seed Packeting"—The Brown Bag Filling Machine Co., Fitchburg, Mass.

B & T Creosote—C-A-Wood Preserver Co., St. Louis, Mo.

"Battle Creek Health Foods for Dogs"dog foods-Miller's Dog Foods, Battle Creek, Mich.

Bartlett-garden and lawn tools, sprayers, tree paints-Bartlett Mfg. Co., Detroit, Mich.

B-B—farm and garden specialties—Ball-Biddle Co., Riverton, N. J.

B-B Dust—bean beetle dust—Hammond Paint & Chem. Co., Beacon, N. Y.

Bee Brand—insecticides and disinfect-ants—The McCormick Sales Co., Baltimore, Md.
Bemis "A's"—standard seamless seed

bag of America-Bemis Bro. Bag Co., St. Louis, Mo.

Bemis Special—threads for machine closing of bags—Bemis Bro. Bag Co., St. Louis, Mo.

Best on Earth - fertilizer -Summers

Fertilizer Co., Baltimore, Md.
"Better Printing—Bigger Sales" ing-A. B. Morse Co., St. Joseph, Mich. Bighead—sprayers—Dobbins Mfg. Co., Elkhart, Ind.

Biotol-sardine oil-Atkins & Durbrow,

Inc., New York, N. Y.

Bird Neponset—flower pots, covers and earth bands—Bird & Son, Inc., East Walpole, Mass.

Black Arrow-insecticide-The McCormick Sales Co., Baltimore, Md.

Black Leaf 40-insecticide, poultry lice killer, worm remedy and dog repellent —Tobacco By-Products & Chemical Corp., Louisville, Ky.

Black Leaf Worm Powder and Pelletspoultry roundworm remedy—Tobacco By-Products & Chem. Corp., Louisville,

Bordow-insecticide-Dow Chemical Co., Midland, Mich.

Co., Chicago, Ill.

Brown—seed packet filling machines and seed packets—Brown Bag Filling Machine Co., Fitchburg, Mass.

Bug-Geta-insect control-Calif. Spray Chem. Corp., Elizabeth, N. J.

Buhler — patented vibrationless drives—S. Howes Co., Inc., Silver Creek, N. Y.

C-A — Wood Preserver — Carbolineum America—C-A Wood Preserver Co., St. Louis, Mo.

Cap Brush—roost applicator for delousing poultry—Tobacco By-Products & Chem. Corp., Louisville, Ky.

Carbolineum America—C-A-Wood Preserver Co., St. Louis, Mo.

Cardinal Brand-wild bird food and suet cake—Garden Products Co., St. Louis, Mo.

Carter--disc separators -- Hart-Carter Co., Minneapolis, Minn.

Cascade—vertical seed mixers—S. Howes

Co., Inc., Silver Creek, N. Y.
Cattle Comfort—stock spray—Hammond Paint & Chemical Co., Beacon, N. Y. Ceresan—s e e d treatment—Bayer-Seme-

san Co., Inc., Wilmington, Del. Certified Premier—Swedish Peat Moss-

Premier Peat Moss Corp., New York, N. Y.

App-L-Set—plant hormone—Dow Chemical Co., Midland, Mich.

Ariens-Tiller—harrow—Ariens Co., Bril-

Chappel's Biskits—fresh meat biskits for dogs-Quaker Oats Co., Rockford, Illinois.

Chase—seed bags—Chase Bag Co., Chicago, Ill.

Chinchola—chinch bug exterminator— Hammond Paint & Chem. Co., Beacon, N. Y.

Cincinnati "A"—cotton seamless bags— J. Chas. McCullough Seed Co., Cincinnati, Ohio

Clipper—seed and grain cleaning and grading equipment—A. T. Ferrell & Co., Saginaw, Mich.

Clute—air-lift elevators and fruit graders—Oliver Mfg. Co., St. Louis, Mo.

Combination—fertilizer spreader and seeder—Cyclone Seeder Co., Urbana, Ind.

"Complete Plant Food"—Swift & Co.,
Vigoro Dept., Chicago, Ill.
"Complete Seed Testing Equipment"—

Seed Testing Equipment"—

Seedburo Equipment Co., Chicago, Ill.

Compound Lever—tree trimming equipment-Bartlett Mfg. Co., Detroit, Mich. Congo-raffia-McHutchison & Co., New

York, N. Y.

Copper-Rotenone — combined dust Mechling Bros., Chemicals, Philadelphia, Pa.

Solution-fungicide-Hammond Copper Paint & Chem. Co., Beacon, N. Y.

Crinkle—"Plant covers give complete crop protection all season at the lowest cost"—plant protectors—Oldmill Paper Products Corp., Long Island City, N. Y.

Cyanogas—fumigant—American Cyanamid & Chemical Corp., New York, N. Y. Cyclone-poultry supplies and broadcast

seeder—Cyclone Mfg. Co., Urbana, Ind. Dandelion Killer-weed killer-Hammond Paint & Chem. Co., Beacon, N. Y.

Deltaseal—small package bag closure-Bemis Bro. Bag Co., St. Louis, Mo.

– Detecto-Gram Detecto-Gram — scales -Scales, Brooklyn, N. Y.

Dickinson's-dog food-The Albert Dickinson Co., Chicago, Ill.

Disbrow—seed bags, packets, envelopes, paper boxes—Disbrow Mfg. Co., Inc., Newark, N. J.

Mich.

Brite Weave Burlap—bags—Chase Bag DN—dry-mix—Dow Chemical Co., Midland, Mich.

Dobbins—dusters and sprayers—Dobbins Mfg. Co., Elkhart, Ind.

Dog-Check—repellent—Nott Mfg. Co.,

Mt. Vernon, N. Y.
Dog Skat—dog and cat repellent—Hammond Paint & Chemical Co., Beacon,

Dogzoff—dog repellent—Bohlender Plant Chemicals, Inc., Tipp City, Ohio Dowax—Dow Chemical Co., Midland,

Mich. Dowfume—Dow Chemical Co., Midland,

Mich. Dow Chloropicrin—Dow Chemical Co.,

Midland, Mich. Dow Dichlordiethyl Ether-Dow Chemi-

cal Co., Midland, Mich. Dow Methal Bromide—fumigant—Dow

Chemical Co., Midland, Mich.

Dowspray-Dormant—Dow Chemical Co., Midland, Mich.

Driconure-fertilizer-all organic fertilizer—Atkins & Durbrow, Inc., New York, N. Y.

Dri-Tite—waterproof tarpaulins—Bemis

Bro. Bag Co., St. Louis, Mo. DuBay New Improved "Ceresan"—seed disinfectant—Bayer-Semesan Co., Inc.,

Wilmington, Del. DuBay "Nu Green"—seed disinfectant— Bayer-Semesan Co, Inc., Wilmington. Del.

DuBay 2% "Ceresan"—seed disinfectant -Bayer-Semesan Co., Inc., Wilmington. Del.

DuBay "Semesan, Jr."—seed disinfectant Bayer-Semesan Co., Inc., Wilmington, Del.

DuBay "Semesan Bel"—seed disinfectant -Bayer-Semesan Co., Inc., Wilmington, Ďel.

DuBay "Semesan"—seed disinfectant— Bayer-Semesan Co., Inc., Wilmington,

DuBay Special "Semesan"-seed disinfectant—Bayer-Semesan Co., Inc., Wilmington, Del.

D-X—rotenone and pyrethrum spray— B. G. Pratt Co., New York, N. Y. Eagle Machine Thread—twine—Fulton Bag & Cotton Mills, Atlanta, Ga.

Eagle Sail Twine—twine—Fulton Bag & Cotton Mills, Atlanta, Ga.

Easyfold—display equipment—Easyfold Mfgr., Faribault, Minn.

Economy—mailing bags—Bemis Bro. Bag Co., St. Louis, Mo.

Eezy-Wear — garden gloves — National Glove Co., Columbus, Ohio.

Erosionet-for preventing soil and seed washing on lawns and terraces—Bemis Bro. Bag Co., St. Louis, Mo.

Ethocil—Dow Chemical Co., Midland. Mich.

Eureka—seed cleaners, separators and graders, lawn seed mixers, scarifiers and seed processing machinery—S. Howes Co., Inc., Silver Creek, N. Y.

Everlastic—glazing bedding putty—Hammond Paint & Chemical Co., Beacon, N. Y.

Eveready—power sprayer—Dobbins Mfg. Co., Elkhart, Ind.

Everything for the Dog"-pet supplies —Spratt's Patent, Ltd., Newark, N. J.
"Every Vitamin for Every Need"—Wm. T. Thompson Co., Los Angeles, Calif.

Exact Weight—scales—Exact

Scale Co., Columbus, Ohio

Exadol—cod liver oil—Atkins & Durbrow, Inc., New York, N. Y.

Expan—propagating pots—Paxton Products Co., Riverside, Calif.

DN-dust-Dow Chemical Co., Midland, Expan-tree protector-Paxton Products Co., Riverside, Calif.

Expert Line—grain and seed cleaners, corn sorters, hullers, scarifiers, fanning mills-Cleland Mfg. Co., Minneapolis, Minn.

Extrax—complete organic insecticide-Calif. Spray Chem. Corp., Elizabeth, N. J.

Eye-Dentify—seals—Stoffel Seals Co., Graslets-

Inc., Chicago, Ill. E-Z—fertilizer spreader—Germain Seed

& Plant Co., Los Angeles, Calif.

armogerm—inoculant — Earp-Thomas Farmogerm-inoculant -Laboratories, Bloomfield, N. J.

Fertil-Spray—spraying device—Hydro-ponic Chemical Co., Inc., New York,

Ferto-Pots — planting pots — The Allen Co., Pittstown, N. J.

Fibo—dog food—Spratt's Patent, Ltd., Newark, N. J.

"Field Warehousing by Douglas-Guardian"—Douglas-Guardian Whse. Corp., Chicago, Ill.

Filmfast — insecticide spreader — Mechling Bros. Chemicals, Philadelphia, Pa. Flea-not-repellent-Nott Mfg. Co., Mt. Vernon, N. Y.

Flex-Beam—garden tool handles—Union Fork & Hoe Co., Columbus, Ohio

Flex-O-Glass—glass substitute—Flex-O-

Glass Mfg. Co., Chicago, III.
Fly-Away—spray—Hammond Paint &
Chemical Co., Beacon, N. Y.

Flyzoff—fly repellent—Bohlender Plant Chemicals, Inc., Tipp City, Ohio. For-Get-Me-Not—natural and c

and colored raffia and peat moss—Julius Loewith, Inc., New York, N. Y. Formacide—fungicide—Hammond Paint

& Chem. Co., Beacon, N. Y.

Four-In-One—percentage scale—buro Equipment Co., Chicago, Ill.

Fruitone-hormone to avoid fruit drop-American Chemical Paint Co., Ambler, Pa.

Fultex—waterproofed canvas tarpaulins and covers-Fulton Bag & Cotton

Mills, Atlanta, Ga.
Fulton "A"—cotton seamless bags—Fulton Bag & Cotton Mills, Atlanta, Ga.

A-1—insect spray—Plantabbs Fulton's Co., Baltimore, Md.

Fulton Brown-tarpaulins-Fulton Bag

& Cotton Mills, Atlanta, Ga.
Fulton Probe Stripe—seed bags—Fulton

Bag & Cotton Mills, Atlanta, Ga. Fumigato—fumigant—Douglas Chem. &

Supply Co., Kansas City, Mo. Fun-L-Fill—sprayers—Dobbins Mfg. Co., Elkhart, Ind.

& O—resale merchandise for seed stores-Goulard & Olena, Inc., New York, N. Y.

Galloway—seed packets—Schmidt Lithograph Co., San Francisco, Calif.
Garden Volck—positive contact insecticide with Nicotine—Calif. Spray Chem. Corp., Elizabeth, N. J.

Gardex - garden tools - Gardex, Inc., Michigan City, Ind.

Gard-N-Cart—garden implement—Masters Planter Co., Benton Harbor, Mich. Gat Spray-lawn sprayer-The Chas. H.

Lilly Co., Seattle, Wash. Germaco Products-garden specialties-Germain Seed Angeles, Calif. & Plant Co., Los

Geha-fish food-Schoemann and Mayer, Inc., New York, N. Y.

Glass-O-Net—mesh base glass substitute -Flex-O-Glass Mfg. Co., Chicago, Ill.
Goldena—feeds—Goldberg Seed & Feed
Co., Fargo, N. Dak.
Gold Leaf—tobacco powder—Tobacco

By-Products & Chem. Corp., Louisville,

Go-West-the improved insect bait Agricultural Laboratories, Inc., Columbus, Ohio.

Seattle, Wash.

GPM—granulated peat moss—Atki Durbrow, Inc., New York, N. Y. Grape and Rose Dust—fungicide—

-Hammond Paint & Chemical Co., Beacon, N. Y.

- dog vitamins - Quaker Oats

Co., Rockford, Ill.
Greenol—copper fungicide for mildews and other diseases—Calif. Spray Chem. Corp., Elizabeth, N. J.

Grip-Lock—bag seal—E. J. Brooks Co., Newark, N. J.

Guardnet-protecting fabric for shading plants and balling roots—Bemis Bro. Bag Co., St. Louis, Mo.

Gustafson—seed treator—Ben Gustafson Seed Grain Machinery Co., Fargo, N. D. Hall—printers—W. F. Hall Printing Co.,

Chicago, Ill.

Hammond Weed Killer—Hammond Paint & Chem. Co., Beacon, N. Y.

Hammond's — insecticides, fungicides

paints and putties—Hammond Paint & Chemical Co., Beacon, N. Y.

Handy Andy-weed cutters--Union Fork & Hoe Co., Columbus, Ohio

Harco-sprayer-Germain Seed & Plant Co., Los Angeles, Calif.

-corn grader—Hart-Carter Minneapolis, Minn.

Heco - envelopes - Heco Envelope Co., Chicago, Ill.

Heinrich—envelopes—Heinrich Envelope Co., Minneapolis, Minn.

Heller—store equipment—Heller & Co., Montpelier, Ohio

Henure—fertilizer—Atkins & Durbrow, Inc., New York, N. Y.

Hi-Lo-Fosfate—soil test for available phosphates—Urbana Laboratories, Urbana, Ill.

Hi-Wall-tourists tents-Bemis Bro. Bag Co., St. Louis, Mo. Hoffer Test—for nitrogen and potash—

Urbana Laboratories, Urbana, Ill.

Horicum Lime-sulphur concentrate and fungicide-Hammond Paint & Chemical Co., Beacon, N. Y.

Hormodin—powders—Merck & Co., Inc., Rahway, N. J. Hormodin No. 1, No. 2 & No. 3 Powder

-root forming chemical—Merck & Co., Inc., Rahway, N. J.

Hotkaps — plant protectors — Germain Seed & Plant Co., Los Angeles, Calif. Howes—equipment for seed houses—S. Howes Co., Inc., Silver Creek, N. Y.

Hudson—garden equipment—H. D. Hudson Mfg. Co., Chicago, Ill.

Humogerm — inoculant — Earp-Thomas Laboratories, Inc., Bloomfield, N. J.
H. W. K.—weed killer—Hammond Paint
& Chemical Co., Beacon, N. Y.

Hydroxcide—insecticide—Mechling Bros. Chemicals, Philadelphia, Pa.

"Hyponex grows Plants in Soil, Sand or Water"—plant food—Hydroponic Chemical Co., Inc., New York, N. Y. Invincible—bean polishers and bean

cleaning and grading equipment—S.
Howes Co., Inc., Silver Creek, N. Y.
Isco Spray—insecticide—Innis, Speiden
& Co., New York, N. Y.

Instant-Weed-Cane - Weed-Knell, Au-

rora, Ill. Jak Tung-trucks - Thomas Truck &

Caster Co., Keokuk, Iowa. Japtov-Japanese bean beetle destrover

-Mechling Bros. Chemicals, Philadelphia, Pa.

JayBee-world's standard grinder for capacity, economy and endurance—J. B. Sedberry, Inc., Franklin, Tenn. Ken-L-Biskit—dog food of champions—

Quaker Oats Co., Rockford, Ill. Ken-L-Ration—dog food of champions-

Quaker Oats Co., Rockford, Ill.

Go-West-bait-The Chas. H. Lilly Co., Ken-L-Worth-fresh meat dog biskit-Quaker Oats Co., Rockford, Ill.

Kerosene Emulsion-insecticidemond Paint & Chemical Co., Beacon,

Kilmice-repellent-Nott Mfg. Co., Mt. Vernon, N. Y.

Kix-water conditioner, spreader and sticker-Hammond Paint & Chemical Co., Beacon, N. Y.

Kleen-Ezy — poultry equipment — H. D. Hudson Mfg. Co., Chicago, Ill.

Krussow—double spiral seed separator—Cleland Mfg. Co., Minneapolis, Minn.

Kwik-Camp—auto tents—Bemis Bro. Bag Co., St. Louis, Mo. Lac-Hi-Potash—soil test for available potassium—Urbana Laboratories, Urbana, Ill.

Larvacide-fumigant for insect, soil and rodents-Innis, Speiden & Co., New York, N. Y.

Legume-Aid — inoculant — Agricultural Laboratories, Inc., Columbus, Ohio.

Leonard-horticultural knives, nursery spades, arboricultural supplies-A. M. Leonard & Son., Piqua, Ohio.

Lenonet—soil fixation material—Bemis Bro. Bag Co., St. Louis, Mo.

Life-O-Plant — plant food — Bohlender Plant Chemicals, Inc., Tipp City, Ohio. Lilly's—calf meal and dog food—The Chas. H. Lilly Co., Seattle, Wash.

Liqua-Vita—liquid fertilizer — America Liquid Fertilizer Co., Marietta, Ohio. - American

iquid Slug Shot—insecticide—Ham-mond Paint & Chem. Co., Beacon, N. Y. Liquid Little Wonder-hedge trimmer - Detco

Mfg. Co., Oaks, Pa.

Loma—The perfect plant food—Tennessee Corp., New York, N. Y.

Lyric—mixed bird seed—Philadelphia Seed Co., Philadelphia, Pa.

McCornick's Rotenone Dust—dust—The

McCormick Sales Co., Baltimore, Md. McQueen's — legume bacteria — Agricul-

- Agricultural Laboratories, Inc., Columbus, Ohio.

Macmillan—garden books—The Macmillan Co., New York, N. Y.
Mainstay—twine for hand closing of bags

-Bemis Bro. Bag Co., St. Louis, Mo. Maro-Meat-dog food-Quaker Oats Co., Rockford, Ill.

Mc Queen's-inoculator-"The Farmer's Friend Since 1908"-Agricultural Laboratories, Inc., Columbus, Ohio.

Magnet-gummed tape-The Tanglefoot Co., Grand Rapids, Mich.

Mash Nic—Tobacco By-Prod. & Chem.
Corp., Louisville, Ky.

- Masters

Masters-garden implements-Planter Co., Benton Harbor, Mich. Mechling's Scale Oil-insecticide-Mech-

ling Bros. Chemicals, Philadelphia, Pa. Merck-animal dips, disinfectants, fumigants, lice killers. seed disinfectants, fungicide—Merck & Co., Inc., Rahway, N. J.

Mike Sulfur-Dow Chemical Co., Midland, Mich.

Miller's Kibbles-Battle Creek Health food for dogs-Miller's Dog Foods, Battle Creek, Mich.

"Mice Proof Seed Cases"—Heller & Co., Montpelier, Ohio.
Milorganite—fertilizer—Sewerage Com-

mission, Milwaukee, Wis.

Mix—bean sorters—S. Howes Co., Inc., Silver Creek, N. Y.

Mole-Nots-pest control-Nott Mfg. Co., Mt. Vernon, N. Y.

Morcrop—fertilizer—The Chas H. Lilly

Co., Seattle, Wash.

Mor-Les-Nitrate-soil test for nitrates-Urbana Laboratories, Urbana, Ill.

Mosquitozoff-mosquito exterminator-Bohlender Plant Chemicals, Inc., Tipp City, Ohio.

Mt. Beacon-green shading-Hammond Pest-Kit-kit containing material to com-Paint & Chemical Co., Beacon, N. Mouse-Nots - pest control - Nott Mfg.

Co., Mt. Vernon, N. Y.

Myers—sprayers—F. E. Myers & Bro.

Co., Ashland, Ohio

Naptoside-insecticide and soil fumigant -Hammond Paint & Chem. Co., Beacon, N. Y

"Nation Wide Service"-Stecher-Traung Lithograph Corp., Rochester, N. Y.

Neponset—flower pots, flower pot covers and earth bands—Bird & Son, Inc., East Walpole, Mass.

New Idea—knapsack sprayer—The F. E.

Myers & Bro. Co., Ashland, Ohio.
Nico-Fume Liquid—greenhouse

and fumigant—Tobacco By-Products & Chem. Corp., Louisville, Ky.

Nico-Fume Powder—greenhouse fumigant—Tobacco By-Products & Chem.
Corp., Louisville, Ky.

Nicotine Soap—insecticide — Hammond Paint & Chemical Co., Beacon, N. Y. Nicotrol—aphicide — Kay-Fries cals, Inc., New York, N. Y. Chemi-

Nitragin—soil and legume inoculator-Nitragin Co., Inc., Milwaukee, Wis.

'Nitragin-the oldest and most widely used inoculator in America"-inoculator—The Nitragin Co., Inc., Milwaukee, Wis.

No Crow--crow repellent-Hammond Paint & Chem. Co., Beacon, N. Y. Nod-O-Gen—pretested inoculator— Albert Dickinson Co., Chicago, Ill. inoculator-The

Nursery Volck—foliage oil spray—Calif. Spray Chem. Corp., Elizabeth, N. J. Nu-Vim—Vitamin B, tablets and liquid—Garden Products Co., St. Louis, Mo.

O.K.—poultry litter—Atkins & Durbrow, Inc., New York, N. Y.

Old English—liquid putty—Hammond Paint & Chemical Co., Beacon, N. Y. Old English-sheep manure-Philadel-

phia Seed Co., Philadelphia, Pa. Old English-turf builder and plant food

-Philadelphia Seed Co., Philadelphia, Pa. Old English Lawn Klenser—Japanese

beetle exterminator—Philadelphia Seed

Co., Philadelphia, Pa.

Oliver—gravity separators, corn graders, aspirators, seed treaters, bag cleaners, shaking shoes and portable electric blowers—Oliver Mfg. Co., St. Louis, Mo.

Original—greenhouse white paint—Hammond Paint & Chem. Co., Beacon, N. Y. Oriole—pigeon feeds—Wm. G. Scarlett

& Co., Baltimore, Md.

Ortho - scientific pest control - Calif. Spray Chem. Corp., Elizabeth, N. J. Paradow—Dow Chemical Co., Midland,

Mich. Peat O'Maine—garden and poultry peat moss (Maine)—Atkins & Durbrow,

Inc., New York, N. Y. Peerless-gunning asbestos asphaltum-Hammond Paint & Chemical Co., Beacon, N. Y.

Peerless—poultry feed—Geo. P. Sexauer

& Son, Brookings, S. Dak.

Penetrol—spreader nicotine, lead arsenate—Kay-Fries Chemicals, Inc., New York, N. Y.

Perfection-dog and fox food-Perfection Foods Co., Battle Creek, Mich. Perfection-sprayers and garden tools-

H. D. Hudson Mfg. Co., Chicago, Ill. Perfection Coliverol—powdered cod liver oil—Perfection Foods Co., Battle Creek,

Perfecto-Sote—C-A-Wood Preserver Co., St. Louis, Mo.

Perfect Dispersion-aluminum paint for greenhouse use—Hammond Paint & Chem. Co., Beacon, N. Y.

bat insects and diseases—Hammond Paint & Chemical Co., Beacon, N. Y.

Pieneer-garden and poultry peat moss (Ontario, Canada)—Atkins & Durbrow, Inc., New York, N. Y.
Plantabbs—plant food and fertilizer—

Plantabbs Corp., Baltimore, Md.

Plasti Chrome—garden tools — Union Fork & Hoe Co., Columbus, Ohio

Post-O-Meter-Scales — Detecto-Gram Scales, Brooklyn, N. Y. Pratt—sprays—B. G. Pratt Co., New

York, N. Y. Premier — Vacuum Cleaned Certified Swedish Peat Moss—Premier Peat Certified

Moss Corp., New York, N. Y.

Pree-Plant — plant stimulant — Wm. T.
Thompson Co., Los Angeles, Calif.
"Printed Salesmakers"—printing—A. B.
Morse Co., St. Joseph, Mich.

'urgrain-pigeon, poultry and rabbit feeds and pigeon health grit—Philadelphia Seed Co., Philadelphia, Pa.

Pussy-Check—repellent—Nott Mfg. Co., Mt. Vernon, N. Y.

Pyrote—non-poisonous double acting in-secticide—Mechling Bros. Chemicals, Philadelphia, Pa.
"Quality Seed Bags"-

-Fulton Bag & Cot-

ton Mills, Atlanta, Ga.

Racine—fanning mill type seed cleaners —S. Howes Co., Inc., Silver Creek, N. Y.

Rat Lunches — exterminator — Rat Lunches Co., Carroll, Iowa.

Mfg. Co., Rat-Nots—repellent — Nott Mt. Vernon, N. Y.

exterminator - Douglas Rat-X — rat Chem. & Supply Co., Kansas City, Mo. Razor-Back Shovels—"The only shovel with a backbone"—Union Fork & Hoe Co., Columbus, Ohio.

Red Arrow—insecticide—The McCormick

Sales Co., Baltimore, Md.

Red Head—bag holder—Bemis Bro. Bag Co., St. Louis, Mo.
Red Star Brand—raffia—McHutchison &

Co., New York, N. Y.

Ree-Root—root stimulant—Wm. T.
Thompson Co., Los Angeles, Calif.
"Reliability"—McHutchison & Co., New
York, N. Y.

Rice—seed mill—W. A. Rice Co., Jerseyville, Ill.

Rich-or-Poor—soil test for acidity—Ur-

bana Laboratories, Urbana, Ill.
Roach Flakes—"It Get's 'Em" for roaches and waterbugs-Agricultural Laboratories, Inc., Columbus, Ohio

Rodopell-bulb protector against moles, rats, mice, etc.—Atkins & Durbrow, Inc., New York, N. Y.

Rootone—the Hormone Powder-root stimulant, seed and bulb stimulant and fungicide—American Chemical Paint Co., Ambler, Pa.

Root Quality—bee supplies—A. I. Root Co., Medina, Ohio

Rose Dust-fungicide-Hammond Paint

& Chemical Co., Beacon, N. Y.
Rotenone "400"—insecticide—Mechling Bros. Chemicals, Philadelphia, Pa.

"75"—insecticide — Mechling Rotenone Bros. Chemicals, Philadelphia, Pa.

Royal River - seamless cotton bags Royal River Mills, Inc., Baltimore, Md. Sacco—fertilizer, plant food, fertilizer spreader and seeder-Smith Agricultural Chemical Co., Columbus, Ohio.

Sanahide-mange lotion-Schoemann and Mayer, Inc., New York, N. Y.

Sanoseed—seed disinfectant—Ansbacher-Siegle Corp., Brooklyn, N. Y.

Scram — dog repellent — Calif. Spray Super-Copper — fungicide — Hammond Paint & Chem. Corp., Elizabeth, N. J.

Screen-Glass-plastic covered wire cloth -Flex-O-Glass Mfg. Co., Chicago, Ill.

—Flex-0-Glass Mig. Co., Chicago, In.
Seal Brand Packet—seed packets—The
Disbrow Mfg. Co., Newark, N. J.

"Sealed-Brooks" — bag seals — E. J.
Brooks Co., Newark, N. J.

"Seed Worth Planting is Worth Treating"—DuBay Products—Bayer-Semesan Co., Inc., Wilmington, Del.
Seedburg Quality—grain seed and flour

Seedburo Quality-grain, seed and flour grading equipment-Seedburo Equipment Co., Chicago, Ill.

Semesan, Jr.—seed disinfectant—Bayer-Semesan Co., Inc., Wilmington, Del.

Semesan Bel-seed disinfectant-Bayer-Semesan Co., Inc., Wilmington, Del. Shadowgraph — scale — Exact Weig

Weight Scale Co., Columbus, Ohio

Sho-Gro—seed germinators — Seedburo Equipment Co., Chicago, Ill.

Shuredry—waterproof canvas tarpaulins and covers-Fulton Bag & Cotton Mills, Atlanta, Ga.

Silver Prince—portable sprayer—F. E. Myers & Bro. Co., Ashland, Ohio.

Silver Seal-aluminum paint for greenhouse use-Hammond Paint & Chem. Co., Beacon, N. Y.
Slug Shot—insecticide in dust form—

Hammond Paint & Chemical Co., Beacon, N. Y.

Snarol—snail killer—The A. S. Boyle Co., Jersey City, N. J.

"Soil-Flow"—garden tools—Gardex, Inc.,

Michigan City, Ind. Sorbex—moss peat—Atkins & Durbrow,

Inc., New York, N. Y.
Spear — envelopes — Heinrich Envelope

Co., Minneapolis, Minn.

Speedline—garden tools—Union Fork &
Hoe Co., Columbus, Ohio.

Spergon—treatment for seed—U. S. Rub-

ber Co., Naugatuck Chem. Div., New York, N. Y. Spix—dog food—Spratt's Patent, Ltd., Newark, N. J.

Spor-Go-copper mildew spray powder -Mechling Bros. Chemicals, Philadelphia, Pa.

Spratt's—dog food and supplies—Spratt's

Patent, Ltd., Newark, N. J. Spraycide — guaranteed household insecticide—Agricultural Laboratories. Inc., Columbus, Ohio

Stabilized Rotenone Dust-insecticide-Hammond Paint & Chemical Co., Beacon, N. Y.

Stand-Bilt-jar fount-Cyclone Mfg. Co., Urbana, Ind.

repellent—Cedar Hill Stanlev's—crow Formulae Co., New Britain, Conn.

Stauffer—sulphur products—Stauffer-Chemical Co., New York, N. Y.
Stim-U-Plant—"The modern Plant Food

Tablet" — Agricultural Laboratories, Inc., Columbus, Ohio.

"Stoffel Seals-they Seal and Sell"seals-Stoffel Seals Co., Chicago, Ill.

Stop That Rot—wood preserver—C-A-Wood Preserver Co., St. Louis, Mo. Storm King-greenhouse white paint and

white glazing compound—Hammond Paint & Chemical Co., Beacon, N. Y. Styron—Dow Chemical Co., Midland,

Mich. Sulfocide—fungicide—B. G. Pratt Co.,

New York, N. Y. Sulrote—dusting mixture, insecticide and

fungicide—Mechling Bros. Chemicals, Philadelphia, Pa.

Summers - fertilizer - Summers Fertilizer Co., Baltimore, Md.

Sunray-plant cover-Paxton Products Co., Riverside, Calif.

Superbilt—sprayers and dusters—Dob-

Superior-grain and seed cleaning machinery-Superior Separator Co., Minneapolis, Minn.

Superior Scale Oil-spray—Mechling Bros. Chemicals, Philadelphia, Pa.

Sure Shot-concentrated pyrethrum soap spray—Hammond Paint & Chemical Co., Beacon, N. Y.

Tetrafume-rat exterminator-Douglas

Chem. & Supply Co., Kansas City, Mo.
"The Little Man With The Big Flower"
—Plant foods—Wm. T. Thompson Co., Los Angeles, Calif.

Co., Mt. Vernon, N. Y.

"There is no substitute for Exact Weight"—scales—Exact Weight Scale Co., Columbus, Ohio

"They're Just Right Strong But Light"— farm and garden tools—Union Fork & Hoe Co., Columbus, Ohio.
Thomas—floor trucks—Thomas Truck &

Caster Co., Keokuk, Iowa.

Thompson's—Vitamin B₁ pellets—Wm.
T. Thompson Co., Los Angeles, Calif. Thompson's Vitamizer—sprayer -

T. Thompson Co., Los Angeles, Calif. Juice - insecticide - Hammond

Paint & Chemical Co., Beacon, N. Y. Ti-o-ga—dog food—Tioga Mills, Waverly, N. Y.

Torsion—laboratory scales—Torsion Bal-ance Co., New York, N. Y.
Urban

Train-etts -- weathered trellis netting -Germain Seed & Plant Co., Los Angeles, Calif.

Transplantone--root stimulant-American Chemical Paint Co., Ambler, Pa.

Transplant Tablet—root stimulant—Wm. T. Thompson Co., Los Angeles, Calif. "Treat Seed Every Year-It Pays"-Du-

Wilmington, Del. Inc.,

Tree Band Paste-tree protector-Hammond Paint & Chemical Co., Beacon,

Tree Tanglefoot-insect control-Tanglefoot Co., Grand Rapids, Mich.

Triad-insecticide-Hammond Paint & Chem. Co., Beacon, N. Y.

Tri-ogen - insecticide - Rose Mfg. Co., Beacon, N. Y.

- scales - Henry Troemner, Troemner -Philadelphia, Pa.

"Their Last Meal"—repellent—Nott Mfg. Try-Sax—cotton seed bags with probe stripes-Bemis Bro. Bag Co., St. Louis,

Twist-Ems—plant ties—Germain Seed & Plant Co., Los Angeles, Calif.

Two-In-One Envelope Bags --- sample mailing bags—Bemis Bro. Bag Co., St. Louis, Mo.

Uni-Culture—i noculant—Kalo Co., Quincy, Ill.

Union—farm and garden tools—Union Fork & Hoe Co., Columbus, Ohio

Union Special — bag closing machine — Union Special Machine Co., Chicago, III.

Universal—combination huller, scarifier, cleaner and grader—American Grain Separator Co., Minneapolis, Minn.

Culture—legume inoculator-Urbana Laboratories, Urbana, Ill.

Urbana Humus-legume inoculator Urbana Laboratories, Urbana, Ill.

Vac-a-Way-seed and grain cleaner and -J. W. Hance Mfg. Co., Westergraderville, Ohio.

Vacuum Cleaned Premier-Swedish Peat Moss-Premier Peat Moss Corp., New York, N. Y.

products—Bayer-Semesan Co., Veget-Aid—plant food—Mechling Bros. Chemicals, Philadelphia, Pa.

Vigoro—plant food—Swift & Co., Chicago, Ill.

Visinet—bags for fruit and vegetables— Bemis Bro. Bag Co., St. Louis, Mo. Vitality—insecticides—The Chas. H. Lilly

Co., Seattle, Wash.
Vitamist—"Vitamize As You Sprinkle"-Burgess Seed & Plant Co., Galesburg. Mich.

Warp's Window Fabric—waxed cloth—Flex-O-Glass Mfg. Co., Chicago, Ill.

Wedo-fertilizer and plant food-Smith Agricultural Chemical Co., Columbus,

Weed Killer-weed exterminator-Hammond Paint & Chem. Co., Beacon, N. Y.

Weed-Knell-instant weed puller-Weed Knell, Aurora, Ill.

Whale Oil Soap—insecticide—Hammond Paint & Chem. Co., Beacon, N. Y.

Window-Fabric—waxed cloth--Flex-O-Glass Mfg. Co., Chicago, Ill. Winner Fanning Mills—grain cleaner—

American Grain Separator Co., Minneapolis, Minn.

Wizard—sheep and cow manure—Pulverized Manure Co., Chicago, Ill.

Woodco-lawn food-F. H. Woodruff & Sons, Inc., Milford, Conn.

Wyr-O-Glass—Wire Base Glass Substi-tute—Flex-O-Glass Mfg. Co., Chicago, Ill.

XX Superior Brand—raffia—McHutchison & Co., New York, N. Y.

XXX Superior Brand-raffia-McHutchison & Co., New York, N. Y.

Zotox-crab grass killer and chick weed killer-Garden Products Co., St. Louis,

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ALSIKE CLOVER SEED PRODUCTION

Compiled by Bureau of Agricultural Economics, USDA

	Ac	reage Harveste	ed		Yield Per Acre	:		Production	
STATE	Average 1930-39	1941	1942	Average 1930-39	1941	1942	Average 1930-39	1941	1942
		Acres			Bushels			Bushels	
New York	1,330	1,500	1,000	1.68	1.80	1.80	2,250	2,700	1,800
Ohio	43,400	21,000	14,100	1.62	1.85	2.05	66,300	39,000	29,000
Indiana	9,200	6,000	3,000	1.32	1.20	1.10	11,160	7,200	3,300
Illinois	14,450	9,000	8,000	1.46	1.40	2.00	20,380	12,600	16,000
Michigan	15,800	10,000	5,000	1.66	2.10	2.00	25,640	21,000	10,000
Wisconsin	14,590	16,000	4,000	1.81	2.50	2.50	27,440	40,000	10,000
Minnesota	29,390	23,000	22,000	2.69	2.10	2.40	80,600	48,000	53,000
Iowa	4,920	3,200	5,400	1.50	1.20	1.10	7,670	3,800	5,900
Missouri	1,400	1,800	1,400	1.36	1.30	1.20	1,920	2,300	1,700
Idaho	3,300	5,200	5,200	5.58	5.00	5.00	17,920	26,000	26,000
Oregon	13,070	20,000	18,000	3.97	5.50	5.50	53,000	110,000	99,000
United States	150,850	116,700	87,100	2.12	2.68	2.94	314,280	312,600	255,700

VELVETBEAN PRODUCTION¹

		Total Acreage			Yield Per Acre	:		Production	
STATE	Average 1930-39	1941	1942	Average 1930-39	1941	1942	Average 1930-39	1941	1942
		Thous. Acres			Pounds			Thous. Tons	
South Carolina	80	85	82	997	1,100	1,075	40	47	44
Georgia	1,071	1,188	1,009	823	850	810	442	505	409
Florida	189	218	197	598	600	540	56	65	53
Alabama	437	474	414	779	950	800	171	225	166
Mississippi	77	103	93	1,030	940	980	39	48	46
Louisiana	56	97	89	779	800	710	22	39	32
United States	1.910	2,165	1.884	806.0	858.2	796.2	771	929	750

¹ The figures refer to the yield and entire production of velvetbeans in the hull, whether grazed or harvested otherwise.

LESPEDEZA SEED PRODUCTION

Compiled by Bureau of Agricultural Economics, USDA

		Acreage Harve	ested		Yield Per A	cre		Production	
STATE	Average 1930-39	1941	1942	Average 1930-39	1941	1942	Average 1930-39	1941	1942
		Acres			Pounds			Thous. Pounds	
Indiana		28,000	25,000		230	190		6,400	4,800
Illinois	121,000	24,000	12,000	1175	190	150	13,900	4,600	1,800
Missouri		248,000	180,000	1159	230	165	111,903	57,000	29,700
Kansas	/	46,000	48,000		200	190		9,200	9,100
Virginia	117.889	27,000	34,000	1228	250	270	13.757	6,800	9,200
North Carolina		150,000	185,000	159	190	210	15,377	28,500	38,800
South Carolina		30,000	42,000		185	215		5,600	9,000
Georgia		27,000	40,000		200	210		5,400	8,400
Kentucky	83,100	82,000	92,000	174	215	265	16,540	17,600	24,400
Tennessee		114,000	122,000	163	230	250	16,790	26,200	30,500
Alabama		15,000	16,000		180	200		2,700	3,200
Mississippi	3,590	20,000	18,000	104	150	185	387	3,000	3,300
Arkansas		18,000	22,000		240	275		4,300	6,000
Louisiana	3,710	9,900	11,600	106	140	130	396	1,400	1,500
United States	360.620	838,900	847,600	163.8	213.0	212.0	65,786	178,700	179,700

¹ Short-time average.

SWEETCLOVER SEED PRODUCTION

Compiled by Bureau of Agricultural Economics, USDA

	Ac	reage Harvest	ed		Yield Per Acre			Production	
STATE	Average 1930-39	1941	1942	Average 1930-39	1941	1942	Average 1930-39	1941	1942
		Acres			Bushels			Bushels	
Ohio	9,600	8,000	9,000	2.31	2.50	2.70	20,940	20,000	24,000
Indiana	5,040	5,900	5,900	2.26	2.80	1.90	10,480	16,500	11,200
Illinois	21,500	33,000	17,000	2.17	2.00	1.90	45,800	66,000	32,000
Michigan		4,000	5,000		2.60	3.30		10,400	16,500
Wisconsin	3.230	3,300	2,600	3.14	3.30	3.20	10,230	10,900	8,300
Minnesota	124,200	147,000	88,000	3.75	2.10	3.60	413,100	309,000	317,000
Iowa	22,000	29,000	14,800	2.58	2.05	2.10	49,320	59,000	31,000
Missouri	5,600	10,600	7,000	2.24	2.40	2.50	13,170	25,000	17,500
North Dakota	35,900	15,000	15,000	2.68	2.90	2.30	95,060	44,000	34,000
South Dakota	28,220	16,900	10,000	2.36	2.20	2.80	68,480	37,000	28,000
Nebraska	19,800	20,000	21,000	2.53	1.90	2.50	50,540	38,000	52,000
Kansas	20,800	42,000	36,000	2.57	2.60	2.50	54,980	109,000	90,000
Montana	4,920	3,000	5,400	2.42	4.00	4.00	12,470	12,000	22,000
Wyoming	3,210	1,300	3,000	3.36	3.00	3.10	10,700	3,900	9,300
Colorado	5,100	6,500	9,100	4.02	4.00	3.50	20,500	26,000	32,000
United States	313,020	345,500	248,800	2.96	2.28	2.91	887,170	786,700	724,800

SOYBEAN ACREAGE (for all purposes) Compiled by Bureau of Agricultural Economics, USDA

		Grown Alone			Interplanted			quivalent Soli	d^1
STATE	Average 1930-39	1941	1942	Average 1930-39	1941	1942	Average 1930-39	1941	1942
	1300 03	1011			Thous. Acres				
New York	6	17	34				6	17	34
New Jersey	11	37	60				11	37	60
Pennsylvania	33	77	108				33	77	108
Ohio	318	923	1,440				318	923	1,440
Indiana	733	1.234	1.728				733	1,234	1,728
Illinois	1,681	2,813	3,940				1,681	2,813	3,940
Michigan	43	149	274				43	149	274
Wisconsin	124	168	160				124	168	160
Minnesota	289	270	413				289	270	413
Iowa	636	1.288	2,202				636	1,288	2,202
Missouri	464	580	700	44	100	140	486	630	770
South Dakota	101	8	19					8	19
Nebraska	5	32	55			l	5	32	55
Kansas	41	83	290				41	83	. 290
Delaware	33	53	66				33	53	66
Maryland	42	71	100				42	71	100
Virginia	110	140	196	51	86	87	136	183	240
West Virginia	43	57	40	1		l	43	57	40
North Carolina	250	371	434	314	414	352	407	578	610
South Carolina	24	48	48	60	97	87	54	96	92
Georgia	68	131	106	70	90	60	103	176	136
Kentucky	120	198	224	14	22	28	127	209	238
Tennessee	162	175	224	142	288	292	233	319	370
Alabama	194	350	298	35	35	30	212	368	313
Mississippi	196	455	500	275	376	353	343	643	676
Arkansas	146	236	330	168	425	400	230	448	530
Louisiana	46	149	155	309	550	517	200	424	413
Oklahoma	16	16	32	3	3	3	17	18	34
Texas	227	17	46	28	4	7	$^{2}\bar{3}\dot{1}$	19	50
			14,222	1,491	2,490	2,356	6,376	11,391	15,401
United States	5,622	10,146	14,444	1,491	4,490	4,330	0,570	11,001	10,701

 $^{^{\}rm l}$ Acres grown alone plus approximately one-half the interplanted acres. $^{\rm 2}$ Short-time average.

SOYBEANS (for beans)

				TIS (IOI BEE			1	Production	
CT A TE		reage Harvest	ed¹		Yield Per Acre	2		Production	
STATE	Average 1930-39	1941	1942	Average 1930-39	1941	1942	Average 1930-39	1941	1942
		Thous. Acres			Bushels			Thous. Bush.	
New York	24	12	24	214.5	15.0	16.0	² 55	180	384
New Jersey		9	$\bar{23}$		13.0	18.0		117	414
Pennsylvania	25	15	35	216.2	15.0	17.0	278	225	595
Ohio	139	674	1,253	18.0	19.5	23.0	2,748	13,143	28,819
Indiana	303	815	1,417	16.6	17.0	21.0	5,264	13,855	29,757
Illinois	978	2,338	3,514	19.2	21.0	21.0	19,710	49,098	73,794
Michigan	16	100	220	13.2	14.0	17.0	236	1,400	3,740
Wisconsin	4	37	83	12.5	15.0	13.0	48	555	1,079
Minnesota	211	80	273	214.5	15.0	13.0	2168	1,200	3,549
Iowa	214	942	1,872	16.8	17.0	21.0	3,804	16,014	39,312
Missouri	107	187	500	9.0	11.5	15.0	926	2,150	7,500
South Dakota		3	14		12.0	15.0		36	210
Nebraska		20	40		11.0	14.0		220	. 560
Kansas		47	212	7.4	12.0	12.0	62	564	2,544
Delaware	18	30	42	12.8	11.5	16.0	230	345	672
Maryland	8	20	43	12.7	12.0	15.5	101	240	666
Virginia	27	51	115	12.2	12.5	15.5	335	638	1,782
West Virginia	1	2	2	11.6	13.0	12.5	16	26	25
North Carolina	133	176	300	11.3	10.0	13.0	1,507	1,760	3,900
South Carolina	8	12	12	6.5	7.5	8.0	53	90	96
Georgia	11	16	12	5.6	6.8	7.2	60	109	86
Kentucky	12	42	82	10.8	13.5	13.0	128	567	1,066
Tennessee	20	20	75	7.4	9.0	12.0	147	180	900
Alabama	10	24	38	5.8	6.0	6.0	57	144	228
Mississippi	26	71	203	8.2	10.5	14.0	215	746	2,842
Arkansas	32	116	239	10.5	15.0	15.0	363	1,740	3,585
Louisiana	12	17	85	11.8	11.5	13.5	148	196	1,148
Oklahoma	3	2	9	6.8	8.0	9.0	20	16	81
Texas	22	3	25	28.0	11.0	9.0	218	33	225
United States	2,103	5,881	10,762	16.1	18.0	19.5	36,385	105,587	209,559

 $^{^{\}rm l}$ Equivalent solid acreage. (Acreage grown alone, with an allowance for acreage grown with other crops.) $^{\rm l}$ Short-time average.

HOPS PRODUCTION

	Ac	reage Harveste	ed		Yield Per Acre	2		Production ¹	
STATE	Average 1930-39	1941	1942	Average 1930-39	1941	1942	Average 1930-39	1941	1942
		Acres			Pounds			Thous Pounds	
Washington	4,350	7,200	7,600	1,771	1,850	1,551	7,767	13,320	11,788
Oregon	19,540	220,000	19,300	935	840	680	18,188	16,800	13,124
California	5,830	7,600	7,800	1,505	1,350	1,280	8,701	10,260	9,984
United States	29,720	34,800	34,700	1,166	1,160	1,006	34,655	40,380	34,896

¹ For some States in certain years, production includes some quantities not available for marketing because of economic conditions and the marketing agreement allotments.

² Excludes approximately 400 acres not harvested because of rain and wind damage.

ALFALFA SEED PRODUCTION

Compiled by Bureau of Agricultural Economics, USDA

C	Ac	reage Harvest	ed		Yield Per Acre			Production	
STATE	Average 1930-39	1941	1942	Average 1930-39	1941	1942	Average 1930-39	1941	1942
		Acres			Bushels			Bushels	
Ohio	15,000	29,000	9,000	1.16	.90	.75	16,790	26,000	6,800
Indiana	6,450	16,800	2,000	.94	.85	.85	5,800	14,300	1,700
Michigan	64,400	84,000	38,000	1.28	.85	.75	69,020	71,000	28,000
Michigan	28,700	28,000	9,000	1.07	1.10	.80	30,820	31,000	7,200
Minnesota	68,530	72,000	48,000	1.37	.80	.90	92,680	58,000	43,000
Iowa	10,230	24,000	7,900	1.40	.90	1.00	13,470	22,000	7,900
North Dakota	16,290	15,000	9,000	.91	1.00	.80	15,120	15,000	7,200
South Dakota	29,370	16,000	18,400	1.00	1.50	1.10	30,200	24,000	20,000
Nebraska	56,900	76,000	65,000	1.38	1.20	1.25	77,740	91,000	81,000
Kansas	70,200	125,000	112,000	1.74	1.20	1.20	122,320	150,000	134,000
Oklahoma	43,200	85,000	76,000	2.20	1.40	1.75	89,150	119,000	133,000
Гехаз	3,920	9,000	8,000	2.78	1.80	4.00	11.170	16,200	32,000
Montana.	34,200	67,000	74,000	2.00	1.75	1.30	72,580	117,000	96,000
Idaho	46,600	30,000	15,000	2.56	1.45	1.70	115,030	44,000	26,000
Wyoming	16,050	22,000	22,000	2.12	1.90	1.60	34.570	42,000	35,000
Wyoming	22,700	9,500	16,200	2.41	1.40	1.60	55,400	13,300	26,000
New Mexico	4,260	5,300	8,500	3.41	1.60	3.00	13,550	8,5 0 0	26,000
Arizona	23,200	34,000	36,000	4.68	2.50	4.00	103,400	85,000	144,000
Utah	32,700	30,000	27,000	1.80	1.50	1.50	60,560	45,000	40,000
Washington.		3,000	3,500		2.00	3.50		6,000	12,200
Oregon	5,470	6,000	5,000	2.63	1.50	1.50	14,200	9,000	7,500
Oregon	16,650	17,600	15,000	3.36	2.40	4.00	56,110	42,000	60,000
United States	616,180	804,200	624,500	1.82	1.30	1.56	1,101.310	1,049,300	974,500

TIMOTHY SEED PRODUCTION

Compiled by Bureau of Agricultural Economics, USDA

	Ac	creage Harvest	ed	1	Yield Per Acre			Production	
STATE	Average 1930-39	1941	1942	Average 1930-39	1941	1942	Average 1930-39	1941	1942
		Acres			Bushels			Bushels	
Pennsylvania Ohio Indiana Illinois Wisconsin Minnesota Iowa Missouri	4,890 35,400 13,460 60,280 10,240 35,290 242,900 82,400	4,500 43,000 13,800 40,000 15,000 28,000 183,000 48,000	5,600 53,000 13,800 34,000 20,000 39,000 210,000 60,000	2.82 3.19 2.98 2.52 3.19 3.69 3.62 3.03	2.65 3.25 3.00 2.80 3.40 3.50 3.75 2.80	2.95 3.35 3.00 2.80 4.00 4.10 4.10 3.20	13,900 120,070 42,850 162,260 33,900 131,670 971,210 274,030	11,900 140,000 41,000 112,000 51,000 98,000 686,000 134,000	16,500 178,000 41,000 95,000 80,000 160,000 861,000 192,000
United States	487,110	375,300	435,400	3.34	3.39	3.73	1,755,280	1,273,900	1,623,500

RED CLOVER SEED PRODUCTION

Compiled by Bureau of Agricultural Economics, USDA

	Ac	reage Harvest	ed		Yield Per Acre			Production	
STATE	Average 1930-39	1941	1942	Average 1930-39	1941	1942	Average 1930-39	1941	1942
		Acres			Bushels			Bushels	
New York	6,770	13,000	9,600	1.26	1.20	1.00	8,460	15,600	9,600
Pennsylvania	19,500	31,000	13,000	.98	1.00	1.10	18,720	31,000	14,300
Ohio	117,100	225,000	169,000	.96	.95	.85	111,200	214,000	144,000
Indiana	167,000	244,000	134,000	.93	.90	.70	152,500	220,000	94,000
Illinois	178,700	180,000	209,000	.97	.80	.70	177,200	144,000	146,000
Michigan	82,400	140,000	77,000	1.05	1.10	.95	87,300	154,000	73,000
Wisconsin	58,600	185,000	120,000	1.19	1.10	.90	70,600	204,000	108,000
Minnesota	31,450	50,000	56,000	1.38	.90	1.00	43,520	45,000	56,000
Iowa	102,080	104,000	185,000	.79	.80	.80	86,620	83,000	148,000
Missouri	46,600	81,000	90,000	.97	1.00	1.10	46,930	81,000	99,000
Kansas	11,200	14,000	16,800	.80	.80	1.00	8,760	11,200	16,800
Maryland	20,150	29,000	14,000	1.30	.80	.80	23,630	23,000	11,200
Virginia	9.100	19,000	5,000	11.09	1.10	.80	10,370	21,000	4,000
Kentucky	29,200	18,000	18,200	1.47	1.30	1.65	13,300	23,000	30,000
Idaho	28,700	35,000	18,200	4.56	4.40	4.60	128,500	154,000	84,000
Washington	13,200	3.000	2,000	12.95	3.50	3.50	19,520	10,500	7,000
Oregon	19,390	11,700	12,000	2.36	3.00	3.10	45,900	35,000	37,000
United States	921.900	1.382,700	1.148,800	1.17	1.06	.94	1,056,870	1,469,300	1,081,900

 $^{^{\}rm 1}$ Short-time average. $^{\rm 2}$ Includes a small percentage of alsike clover seed.

TIMOTHY SEED EXPORTS FROM THE UNITED STATES, BY COUNTRIES OF DESTINATION 1929-1941

Compiled from Foreign Commerce and Navigation of the United States.

Country to which exported	1929	1930	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	19411
	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds
Belgium	11,000	28,600	130,026	0	0	. 0	48,600	77,318	132,628	138,002	40,454		1 227 520
Canada		12,532,960	6,324,495	8,565,213	3,191,510	3,291,045	190,483	2,342,742	411,247	1,399,462	5,307,717	6,072,062	1,237,520
Denmark	273,930		331,375	38,599	0	0	18,500	0	0	0	154 120	070.764	0
France	24,449	7,516	197,542	45,563	1,228	0	201,113	98,586	177,129	175,570			0
Germany	219,356	345,519	496,620	210,799	35,088	0	173,258	0	82,475	0	1,732,902	0	U
Irish Free State	111,042	58.091	25.856	37,257	22,440	0	35,945	108,272	168,919	233,881	170,383	114,894	0
Italy	2,210	44,200	2,210	1.134	0	Ö	4,400	2,200	0	0	17,600	2,200	0
Japan	15.184	20,244	27,514	37.887	15,000	6.046	9.981	0	9.000	37.943	. 0	0	0
Netherlands	65,193	88,994	166,321	51,599	65,036	0	171,780	90.468	169,932	327,151	230,679	75,313	0
New Zealand	294,017	191,356	191,138	218,693	259,238	114,215	472,076	184,321	296,437	233,240	275,365	312,120	20,484
Newfoundland &				,	,	,			_,,_,,				
Labrador	31.700	44,200	47.008	34.650	48,193	42.840	19,040	25,225	55.525	48,683	54,470	84,526	36,147
Norway	241,648	269,917	0	0	0	0	0	0	0	0	0	0	0
Switzerland	0	7,500	2,646	60,500	0	11.008	94,785	59,730	0	15,676	82,971	37,775	0
United Kingdom	1,522,323	1.985.296	2,533,593	1,581,728	1,353,708	233,066	1.973,724	1.013.444	1,727,538	1,833,897	2,338,565	2,608,037	796,337
Other Countries.	40,232	238,406	0	7,040	\$17,806	0	11,031	300	940	48,044	1,110		2,500
Total	9,195,022	15,828,571	10,476,344	10,890,662	5,009,247	3,698,220	3,424,716	4,002,606	3,231,770	4,491,549	10,406,336	9,584,470	2,092,988

¹ Three months ended March. ²32,000 pounds to Hungary. ³15,266 pounds to Austria.

RED CLOVER SEED EXPORTS FROM THE UNITED STATES, BY COUNTRIES OF DESTINATION, 1929-1941

Compiled from Foreign Commerce and Navigation of the United States.

Country to which exported	1929	1930	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	19411
which exported	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds
Australia	0	0	0	0	0	0	0	0	0	0	0	11,480	17,920
Belgium	16,309	0	0	0	234 , 3 25	172,633	0	2,200	0	0	0	0	0
Canada	58,051	170,688	488,656	87,333	805	121,229	6,232	9,341	79,475	0	881	10,575	789
Denmark	44,331	11,338	0	0	11,000	16,314	6,785	6,770	4,521	0	0	0	0
France	8,860	21,701	0	0	976,450	235,684	11,000	0	33,762	0	0	0	0
Germany	117,005	206,678	49,103	76,172	230,330	120,672	20,537	10,975	15,458	0	0	0	0
Netherlands	63,628	51,609	0	0	2,500	0	20,780	22,380	85,207	33,000	1,000	0	0
New Zealand	0	114	1,142	20,340	11,200	175,682	6,990	2,427	0	11,160	1,120	0	0
United Kingdom	203,133	55,150	116,065	100,545	1,420,162	195,514	184,293	34.986	232,088	135,967	220,488	681,079	124,426
Other Countries	212,218	318,194	15,338	13,509	4138,666	53,892	\$54,820	(36,192	12,678	2,645	760	23,358	1,325
Total	523,535	535,472	670,304	297,899	3,025,438	1,091,620	311,437	125,271	463,189	182,772	224,249	726,492	144,460

¹ Three months ended March. ² 11,000 pounds to Poland and Danzig. ³ 17,603 pounds to Japan. ⁴ 83,616 pounds to Japan; 22,000 pounds to Austria, and 33,000 pounds to Italy. ⁵ 51,823 pounds to Japan. ⁶ 32,050 pounds to Japan.

WHOLESALE SELLING PRICES FOR BEST GRADES OF FIELD SEEDS AT IMPORTANT MARKETS, 1930-1942

Compiled from office records, by the Division of Agricultural Statistics, Bureau of Agricultural Economics, U. S. Department of Agriculture.

(Per 100 pounds, except for last 8 kinds where prices per bushel are given.)

Kind of Seed	Market	1930	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	1941	1942
A16-16-	V	Dollars	Dollars	Dollars										
Alfalfa	Kansas City		22.55	13.65	13.60	13.00	19.80	15.20	29.60	34.00	24.75	22.75	19.00	33.00
Red clover	Chicago	21.35	25.05	16.35	11.40	14.75	23.65	20.90	38.25	40.00	18.00	18.70	14.00	22.50
	Chicago		23.50	15.05	11.95	16.25	28.65	23.30	25.95	33.00	16.25	23.00	14.50	22.50
Sweetclover	Minneapolis		9.20	5.50	4.50	6.50	10.40	6.25	17.00	11.35	7.75	6.90	6.60	13.00
White clover	Chicago	27.50	39.05	40.50	27.85	30.50	27.50	27.10	30.10	35.00	42.50	62.50	72.00	73.00
Crimson clover	Baltimore	11.50	9.00	6.75	9.20	9.20	12.05	7.55	7.80	10.35	12.70	11.60	10.85	11.50
Lespedeza	Louisville	14.35	14.70	8.10	7.50	5.00	10.50	5.65	15.60	5.45	3.50	5,55	5.40	7.10
Timothy	Chicago	8.05	10.55	4.30	3.25	8.50	22.80	3.65	6.95	4.00	4.00	6.35	5.25	9.00
	Chicago	16.50	24.20	8.70	5.30	8.40	13.95	9.35	21.50	11.50	11.15	11.35	10.25	11.50
Kentucky bluegrass	Kansas City	20.00	35.35	13.45	8.35	13.40	23.20	12.30	18.35	10.65	10.50	19.50	18.50	18.50
	Louisville	17.15	16.05	7.35	7.30	9.70	16.20	12.50	18.30	16.15	17.50	16.90	26.00	. 32.50
Meadow fescue	Kansas City	10.00	10.75	5.50	4.15	7.05	18.00	7.00	10.50	8.85	12.00	14.00	16.00	
Chewings fescue	Baltimore	27.00	36.00	22.65	11.75	19.35	55.45	41.90	31.80	39.75	60.00	51.00	32.90	35.00
Sheep's fescue	Baltimore	22.00	27.50	14.90	10.95	14.85	52.45	30.25	29.00	26.10	35.00	45.00	45.00	
German mixed bent	Baltimore	55.00	85.00	71.60	62.00	72.15	85.90	52.70	45.00	58.10	55.00	59.00		
Bermuda grass	Baltimore	33.80	31.35	16.25	12.10	10.55	20.40	23.45	26.75	22.90	24.60	23.70	19.70	38.00
	Minneapolis	18.50	20.00	14.00	8.00	16.20	26.00	13.45	26.00	19.45	17.05	16.60	19.00	19.00
Italian ryegrass	Baltimore	9.25	9.50	8.85	7.10	44 40	44.00		7.10	7.50	7.80	***************************************		
Perennial ryegrass	Baltimore	8.75	10.00	8.85	7.10	11.40	11.90	10.20	11.30	9.00	11.00	11.00	12.40	14.50
Common ryegrass	Baltimore		5.00	3.45	3.70	6.70	5.20	4.50	7.10	7.55	6.25	6.00	5.00	7.75
German millet	Kansas City	3.45	3.70	1.80	1.55	3.35	7.00	2.70	4.90	3.25	1.85	2.60	3.25	3.25
Siberian millet	Minneapolis	3.10	3.40	2.60	2.40	3.65	6.10	2.75	3.40	2.35	2.50	3.75	4.25	4.00
Hungarian millet	Cnicago	4.10	3.50	2.25	1.95	2.90	6.05	3.00	5.00	3.50	3.15	4.50	3.50	4.50
Japanese millet	Chicago	4.20	3.70	3.20	2.90	3.00	6.00	2.50	3.25	3.00	3.00	5.45	5.00	4.00
Broomcorn millet	Minneapolis	3.00	2.40	1.95	1.80	2.20	4.30	2.25	2.75	2.30	2.50	2.15	1.65	2.15
Amber sorgo	Kansas City	3.45	2.80	1.20	1.15	1.60	5.65	2.70	4.00	1.85	1.70	2.75	2.65	2.25
Orange sorgo	Kansas City Kansas City	3.30	2.80	1.25	1.20	2.10	5.40	2.70	3.95	1.80	1.60	2.75	2.70	2.40
	Kansas City	5.40	7.40	1.75	2.05	5.50	12.30	3.15	4.60	3.25	3.55	3.50	3.85	3.00
Rape	Baltimore	5.70	4.30	4.15	3.75	4.30	3.60	4.00	5.95	6.55	6.35	7.30	16.50	16.00
Hairy vetch	Baltimore	9.00	8.45	7.50	7.00	8.75	11.50	9.75	8.85	8.50	8.20	10.80	10.00	10.75
Common vetch	Baltimore	4.80	4.50	4.00	3.50	5.00	3.50	3.75	5.00	4.65	5.00	6.75	6.00	7.50
Canada field peas	Minneapolis	5.25	3.85	4.80	4.50	3.85	3.85	4.00	5.15	5.35	4.85	5.85	5.20	5.50
Kafir	Kansas City	2.05	1.75	1.15	1.10	1.40	3.20	2.00	3.15	1.75	1.55	2.30	2.30	2.75
CowpeasBu.	Baltimore	3.30	2.70	1.05	.95	2.50	2.50	2.30	3.00	2.20	2.40	1.90	2.25	2.85
Soybeans	Louisville	2.25	2.15	.75	.95	1.45	1.60	1.35	2.25	1.35	1.15	1.50	1.50	2.70
Seed corn	Chicago	1.75	1.65	1.20	.85	1.00	1.75	2.95	2.50	1.50	1.25	1.40	1.35	1.60
	Minneapolis	1.65	1.15	1.00	.90	1.25	1.50	1.65	2.00	1.35	1.25	1.40	1.30	1.70
Seed oats	Minneapolis	.80	.65	.55	.45	.65	.90	.70	.90	.75	.65	.75	.75	.90
Seed Darley	Minneapolis	.80	.75	.75	.65	.95	1.45	1.00	1.70	1.15	.90	.90	.90	1.25
Seed rye	Minneapolis	1.50	1.05	.90	.80	1.35	1.50	1.25	1.45	1.30	1.10	1.25	1.25	1.40
Seed buckwheat "	Minneapolis	1.50	1.30	1.20	.95	1.20	1.15	1.85	1.75	1.35	1.10	1.10	1.00	1,20

RETAIL SEED PRICES, SPRING OF 1942, BY STATES (In Dollars per 100 Pounds)

						,									
i	Com-		Clover	ver		Kor.	į		Ky.		mon	Smooth	Sudan	Amber	Ger-
State or States	mon Alfalfa	Red	Alsike	Sweet	White	Lespe- deza	Timothy	Redtop	Blue- grass	Orchard Grass	Rye- grass	Brome- grass	Grass	Sorgo ("Cane")	man Millet
New England New York. Pennsylvania New Jersey. Maryland	\$40.55 39.05 38.80 40.05 39.20 37.00	\$28.30 26.45 26.10 27.10 26.25 25.75	\$28.10 25.90 25.45 26.15 26.15 25.70 24.80	\$15.60 14.55 14.05 14.55 13.95 14.35	\$95.45 98.60 96.60 93.20 89.20 88.05	\$10.90 9.25 10.30 9.80	\$11.60 10.75 10.75 11.00 10.60 10.50	\$16.95 16.90 16.50 16.10 14.75 13.90	\$28.75 27.20 25.85 25.85 24.00 23.50	\$39.65 36.65 36.45 35.20 34.40 32.45	\$12.40 10.40 10.65 10.15 12.15 10.05	\$23.50 25.60 24.50	\$6.55 6.20 5.85 5.75 5.10 5.15	\$5.40 5.55 4.80 5.05 4.70	\$6.75 6.10 5.95 5.40 6.40
West Virginia. Southeastern. Tennessee. Kentucky. Ohio.	39.00 31.45 34.40 35.00 34.40 37.20	26.10 24.40 24.85 24.85 23.40 23.40	26.00 24.20 24.80 25.10 23.45 24.60	14.55 12.95 12.80 13.75 13.95	76.55 85.60 84.80 88.05 91.90	9.90 8.95 8.75 9.80 9.65	10.80 11.20 10.80 10.30 10.05	15.55 15.10 12.95 12.50 16.80 15.40	26.05 25.75 24.20 22.35 26.20 26.10	34.45 31.65 35.00 33.70 36.65 36.20	9.15 9.75 9.30 11.80 10.50	22.90	5.65 5.95 5.95 5.00 5.50 5.50	3.90 3.05 4.70 5.40	6.20 8.10 5.90 7.00 6.30 5.15
Illinois. Iowa. Missouri. Michigan. Wisconsin.	37.15 36.50 33.50 38.80 38.10 37.80	23.50 24.95 21.50 23.80 23.15 23.15	24.30 25.10 23.60 24.40 24.45 25.70	13.70 14.00 12.20 14.40 14.30 13.10	85.00 86.25 80.60 89.05 78.60 88.00	9.55 10.50 7.45 11.10 11.00	9.90 9.15 9.10 11.05 10.10	13.60 15.15 12.00 17.40 15.95 17.10	25.70 25.80 22.95 27.10 24.85 26.30	36.60 34.25 32.80 38.55 38.90 35.50	10.65 10.70 9.80 12.40 10.80 11.95	21.65 21.50 19.70 23.30 22.90 22.10	4.95 4.80 4.20 5.35 5.00	4.95 3.70 5.55 4.65	4.75 4.65 5.40 4.90 4.90
North Dakota South Dakota Nebraska Kansas Oklahoma Arkansas Texas	33.00 35.70 32.40 30.00 28.95 31.40 29.50	25.80 25.80 25.05 22.15 23.30 27.40	25.75 26.05 25.50 24.80 25.15 28.60	12.35 11.95 12.35 10.70 12.35 15.20 14.05	79.00 86.50 90.40 81.95 86.25 82.10	10.25 8.35 9.20 8.80 10.45	9.95 10.15 9.80 9.40 10.55 11.40	15.75 15.90 15.05 14.35 13.05 13.95	25.15 26.00 28.40 25.50 28.50 28.50	35.95 34.50 33.15 34.30	14.40 11.10 11.80 10.60 9.30 10.05 8.20	19.95 20.30 18.95	4.60 3.80 3.80 2.85 2.85 85 85	2.95 2.95 2.15 2.15 2.20 2.20	4.55 3.85 3.05 2.90
New Mexico Montana Colorado Idaho Washington Oregon California	30.10 32.60 34.20 37.70 39.50 36.80	24.30 24.05 23.95 25.30 22.80 28.50	25.90 27.20 25.20 25.60 22.95 28.80	14.60 12.90 12.95 16.40 17.60 17.15	87.20 98.05 92.10 95.70 85.95 95.50	12.05	11.40 12.10 12.20 12.10 11.95 14.65	15.90 17.15 20.25 20.00 19.70 20.30	31.40 28.30 30.20 31.30 34.45 34.60 33.90	32.50 37.50 35.15 40.60 39.70 40.10 44.00	11.50 12.60 13.70 9.60 8.15 10.40	21.15 21.55 22.35 23.25 22.10 25.85	3.70 3.65 8.90 6.90 6.15	2.95 4.20 2.75	3.55 4.50 3.90 5.75
U. S. Average Av. year ago 5-year (1936-40) Av.	36.10 21.85 28.25	24.45 15.85 29.20	24.90 17.40 26.85	13.45 7.45 10.95	88.35 82.50 47.25	8.70 6.70 9.35	10.20 6.50 6.30	14.80 13.90 15.75	26.20 25.10 20.90	35.60 28.40 19.55	9.90 7.50 8.85	21.75	4.25 4.50 4.60	3.15 3.00 3.25	4.50 3.95 4.05
(1) Prices based on reports of retail seed dealers to the Division of Agricu	tail seed d	ealers to th	ne Division	ı of Agricu	ltural	Statistics, Bureau		of Agricultural Economics	conomics.						

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O BLACK LEAF 40

Has So Many Uses!

For Flowers Aphis (plant lice), leafhoppers, leaf miners, young sucking bugs, mealy bugs, lace bugs, most thrips . . . All these and similar insects can be controlled with Black Leaf 40. Full directions on the label. Spray early and keep the pests down.

In the Orchard Aphis, which can almost destroy an orchard crop, are readily controlled with Black Leaf 40. Likewise, leafhoppers and bud-moth. Black Leaf 40 is also useful in the codling moth program. Does not burn foliage and can be used readily with standard spray combinations.

In the Poultry House Black Leaf 40 is a great time-saver when delousing fowls. No handling necessary. Just spread a thin film on the roost with the "Cap-Brush" and the lice are is it to a the fowls perch. Note: Directions on package describe special treatment needed for feather mite control.

In the Vegetable Garden Black Leaf 40 can be used either as a spray or in dusting vegetables. Kills both by contact and by fumes. Leaflets regarding dusting and garden spraying furnished upon request. Economical—"A little goes a long way."

For Live Stock Black Leaf 40 is permitted by the U. S. Government in official dippings of sheep and cattle for scabies. Also an effective dip for lice and ticks on sheep and for lice on cattle. As a treatment for sheep stomach worms, it is effective when combined with copper sulphate in proper doses. Complete instructions furnished upon request, or see Black Leaf 40 labels and leaflets.

To Keep Dogs Away Dogs are a pest where evergreens, box planting and other hedges are available. Dogs do not like the odor of Black Leaf 40 and will avoid it. Spray where dogs are a nuisance.

Wherever you see an orchard, a flower garden, a vegetable garden, a flock of poultry or a flock of sheep, there is need for Black Leaf 40—the versatile product! Keep a supply of Black Leaf 40 on hand.

Good Profits from BLACK LEAF 40

Black Leaf 40 is a profit-making line, primarily because it has a year-'round sale. This insecticide never goes to the basement, to be set aside until springtime comes again. Displayed on the shelf, it sells for poultry use, to keep dogs away and the like. Most dealers handle Black Leaf 40 because of its unusual profit-making possibilities.

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OTHER PROFIT-MAKING PRODUCTS

Black Leaf Worm Powder

Roundworm (Ascaridia Lineata) in whickens is controlled by feeding a lit tle Black Leaf Worm Powder mixed tle Black Leaf Worm Powder mixed with the mash. The product is inert until it reaches the intestine of the chicken, where a chemical reaction takes place. The nicotine is then released and acts upon the worms. Chickens are not upset by this "shockless" treatment.

Black Leaf Worm Pellets

Made of the same material as the Worm Powder, and used for individual treat-

Nico-Fume Pressure Fumigator

For greenhouse work, the Pressure Fumigator is outstanding in effective-ness as a fumigating agent. Write for full details if you are not familiar with

Black Leaf 155

A special product, effective against the codling moth and certain other pests. Black Leaf 155 provides "non-wash" protection for the orchard.

Mash-Nic
Mash-Nic is a standardized product, designed to take the place of the old feeding tobacco used for the control of roundworm (Ascaridia Lineata) in chickens. When mixed with the feedit gives outstanding results. Full information will be furnished upon request.

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over 4,000 publications, ads tell the story of Black Leaf 40. Many of these publications are running the year around. Included in the advertising campaign are practically every farm paper in

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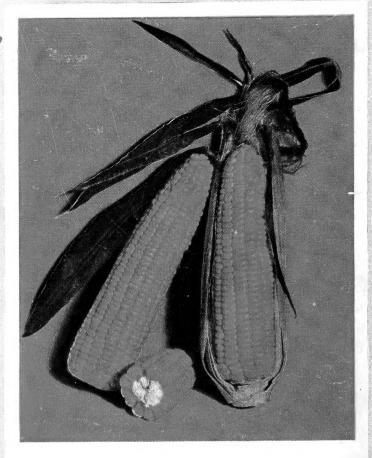


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